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Texas 77252-2463,
United States of America

(continued on next page)

(51) INT CL[7]:
E21B 43/10 23/01

(52) UK CL (Edition W):
E1F FAC FAC9 FKF FKG FLA F204

(56) Documents Cited:
GB 2356651 A **WO 2001/004535 A**

(58) Field of Search:
UK CL (Edition W) **E1F**
INT CL[7] **E21B**
Other:

(54) Abstract Title: **Coupling an expandable tubular member to a preexisting structure**

(57) A tubular member 2805 is coupled to a wellbore casing 2810 by expanding the tubular member by means of an expansion cone. Thereafter the expansion cone is removed and a radial expansion tool 2905 is used to further radially expand the tubular member 2805 by the application of a direct radial pressure.

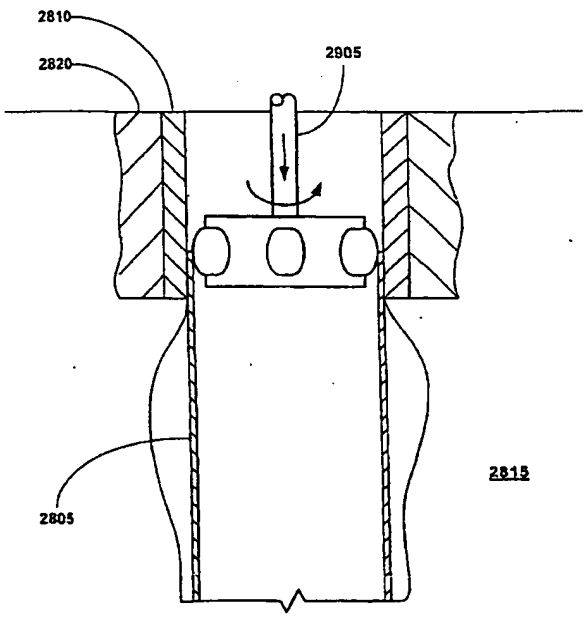

FIGURE 29

GB 2 401 136 A

GB 2401136 A continuation

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Lev Ring
Thomas Patrick Grant III
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Andrei Gregory Filippov

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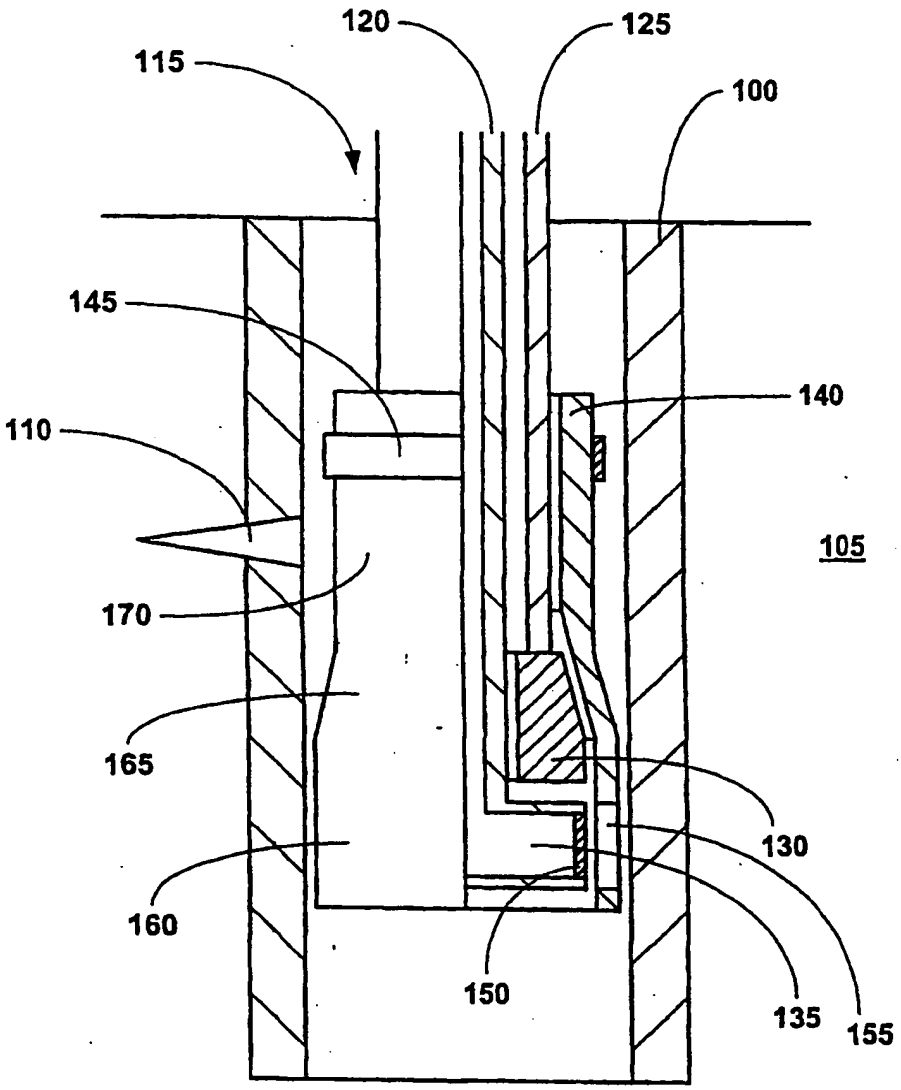


FIGURE 1a

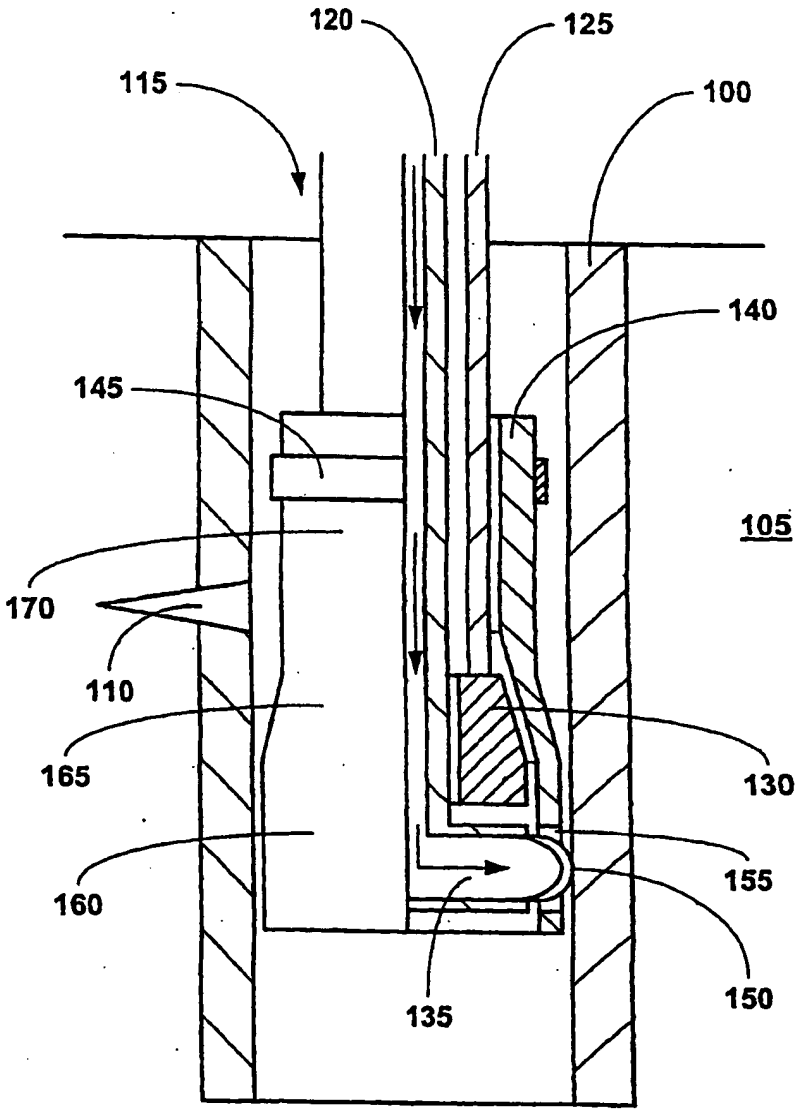


FIGURE 1b

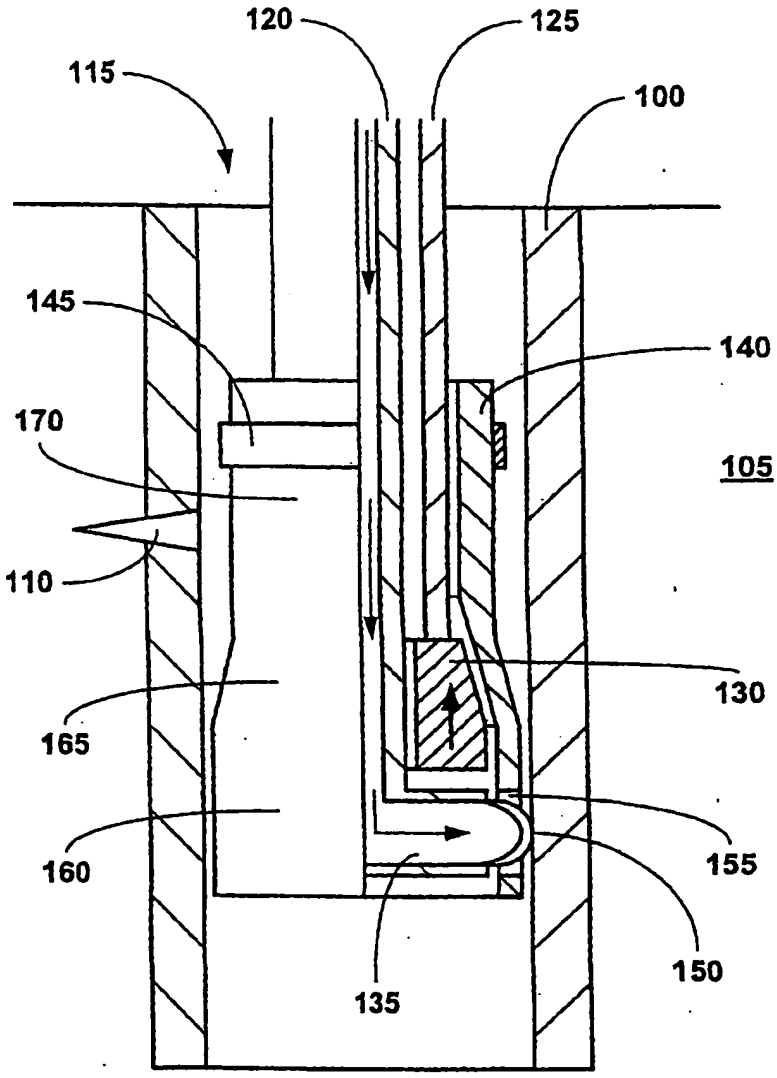
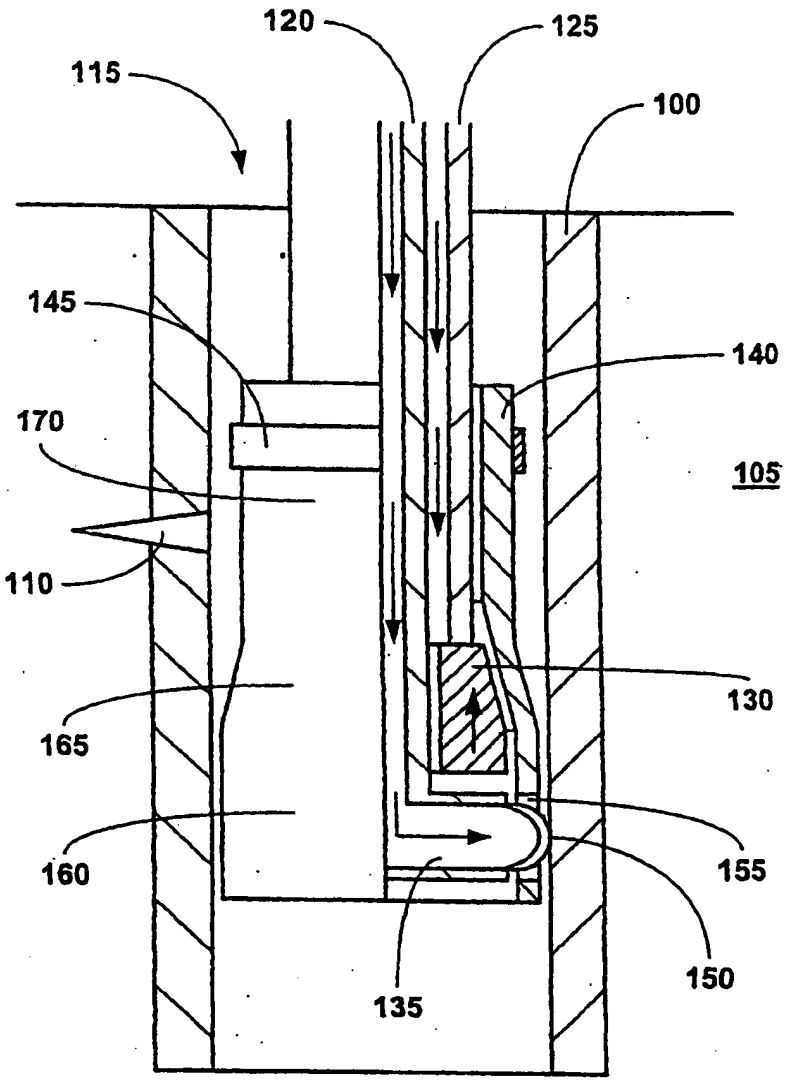


FIGURE 1c



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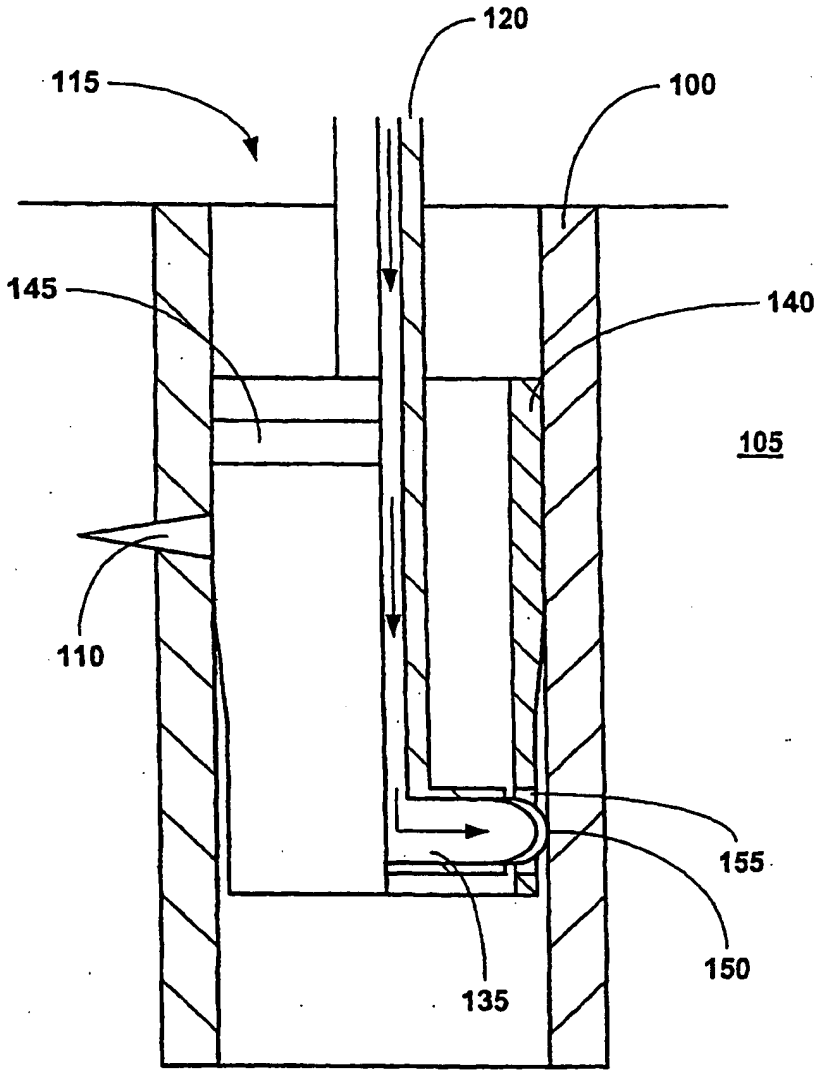

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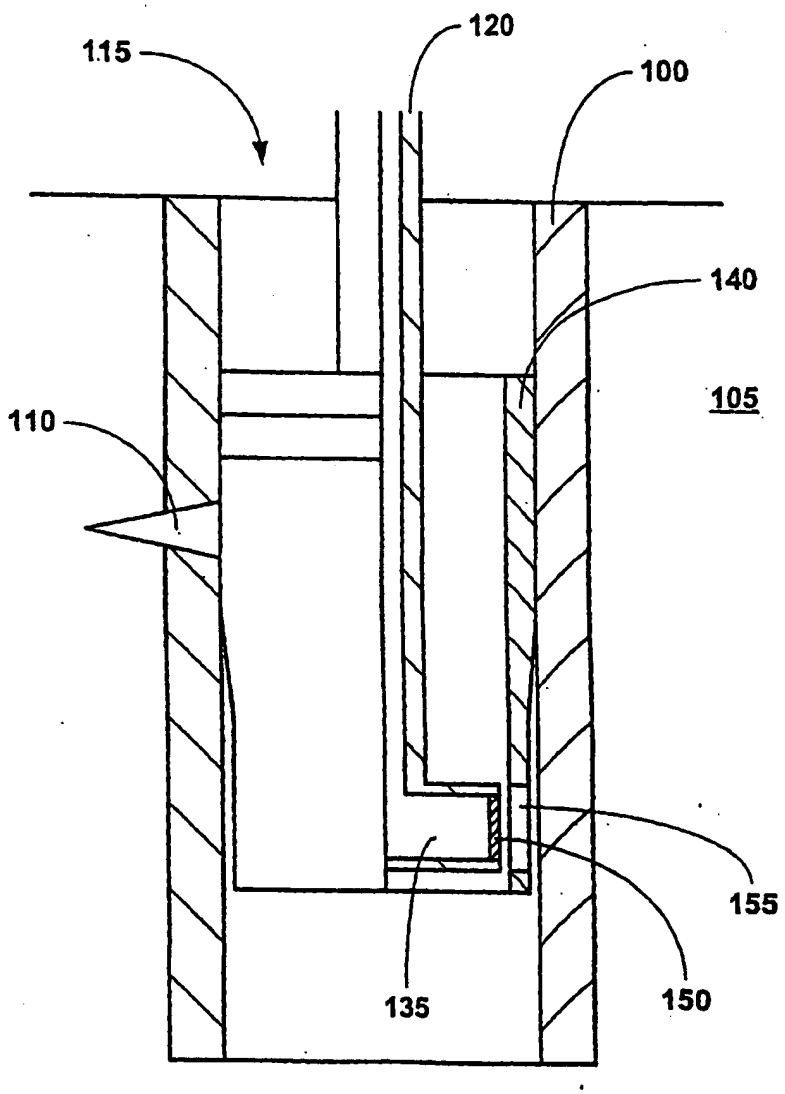

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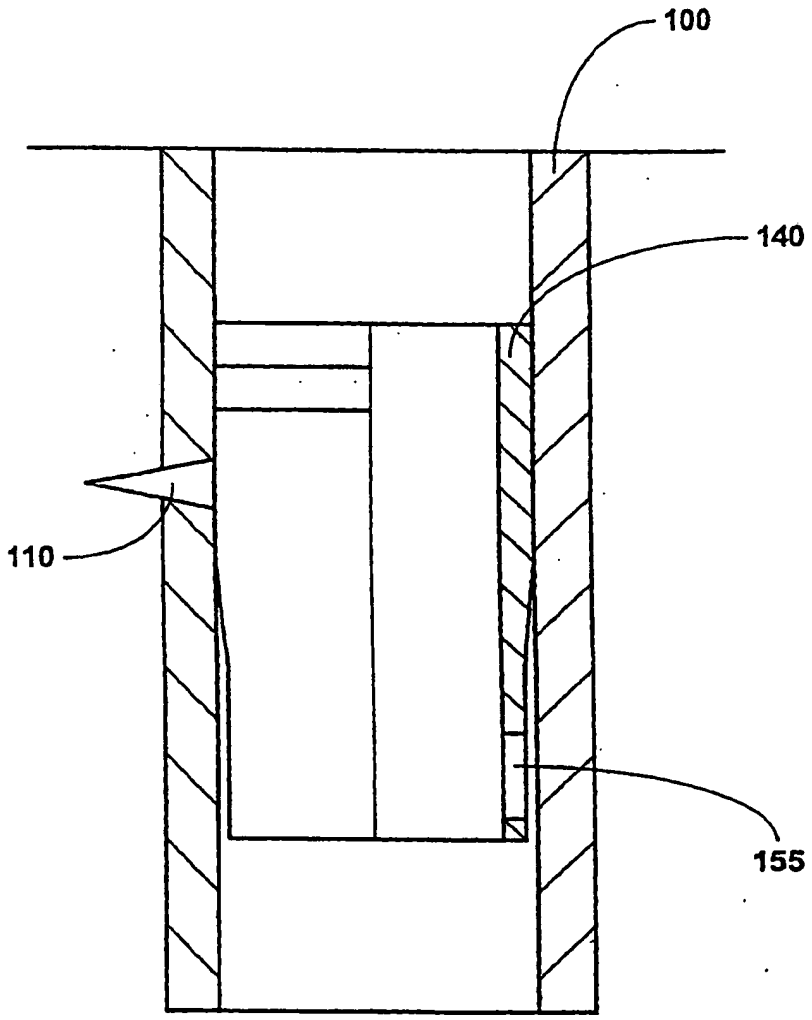

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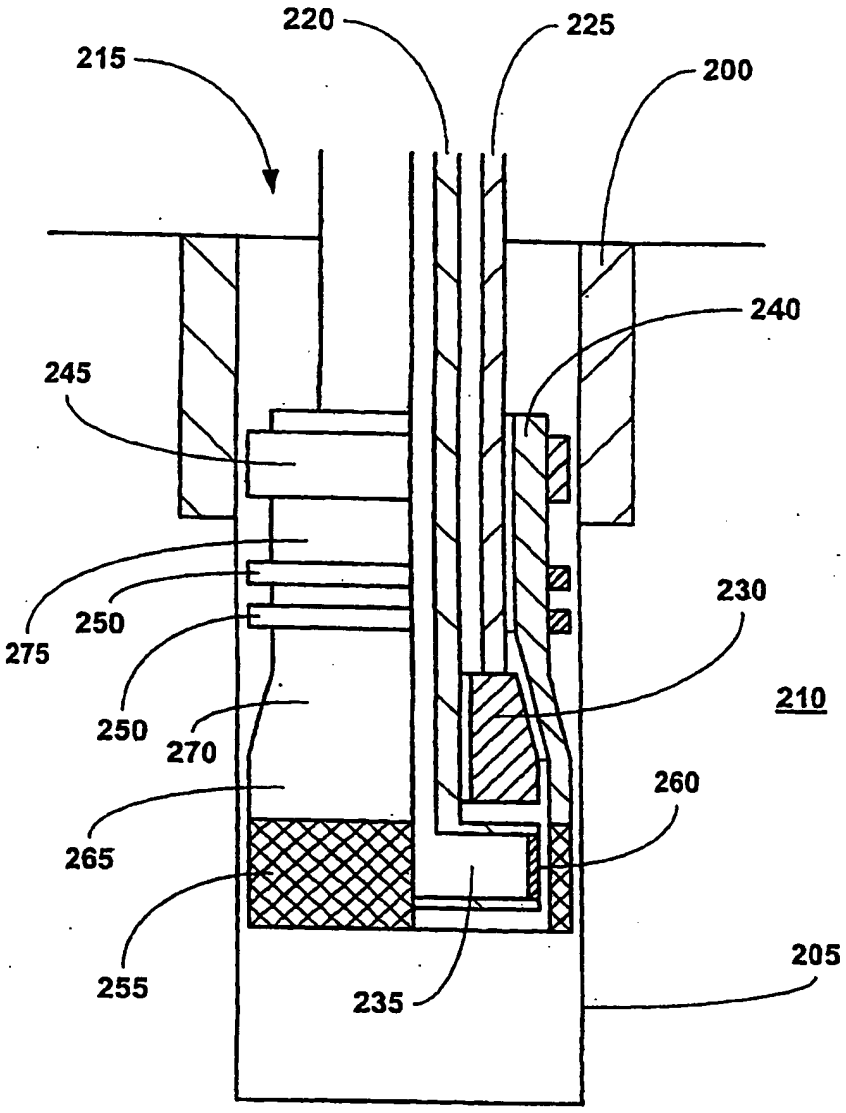
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FIGURE 2a

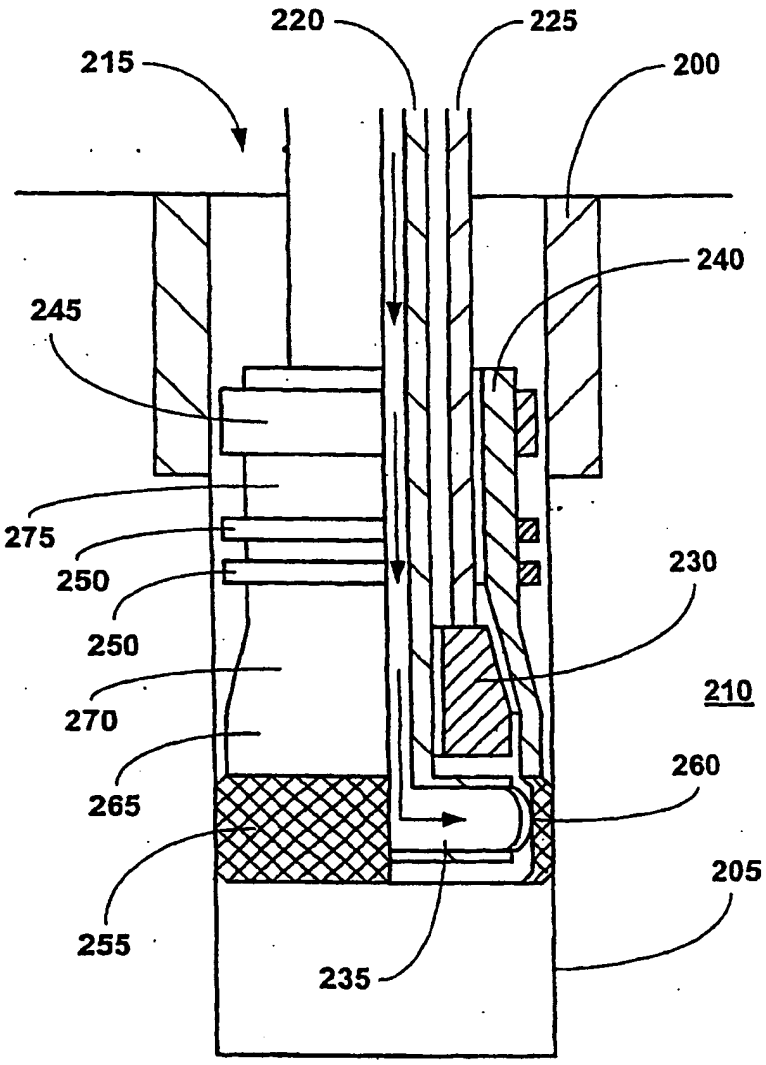
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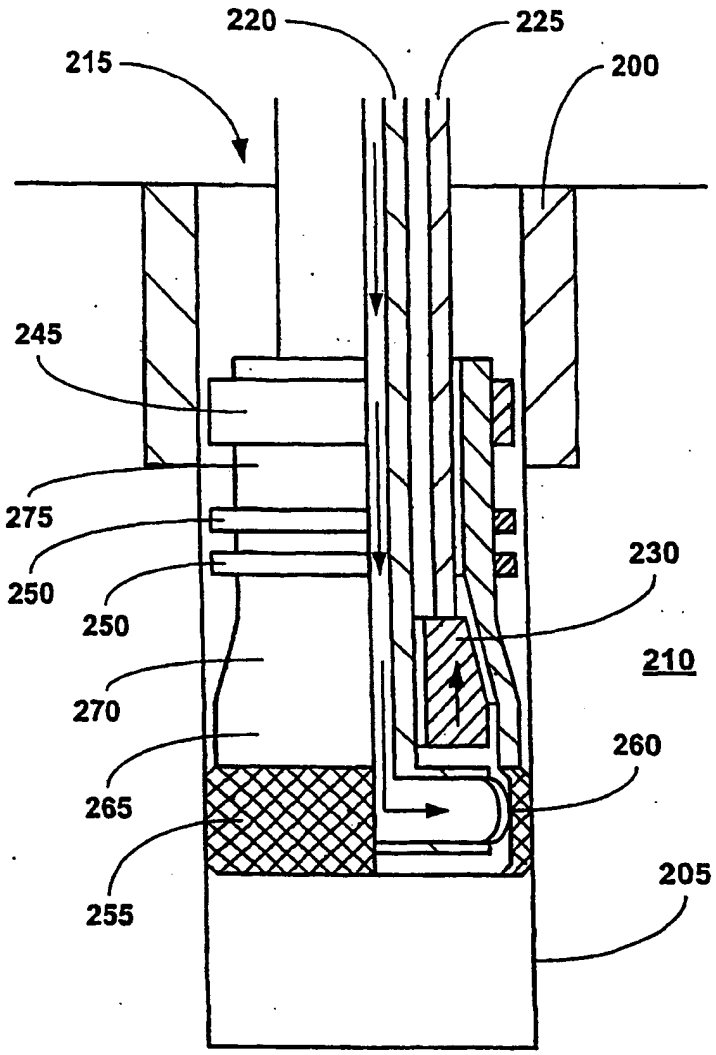
FIGURE 2b



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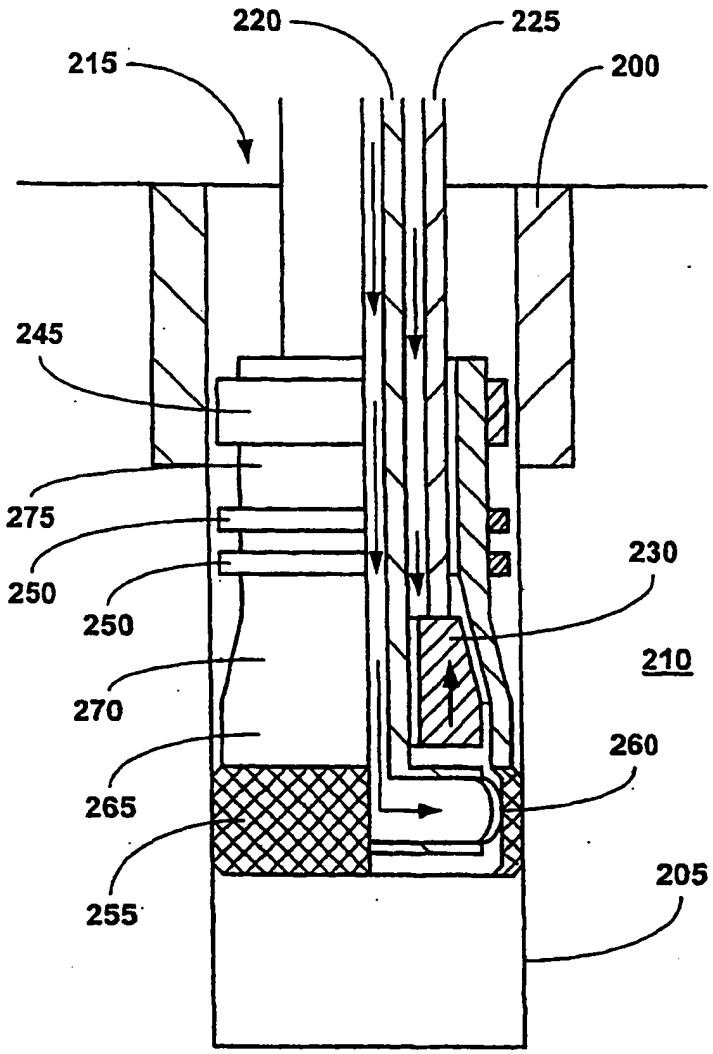

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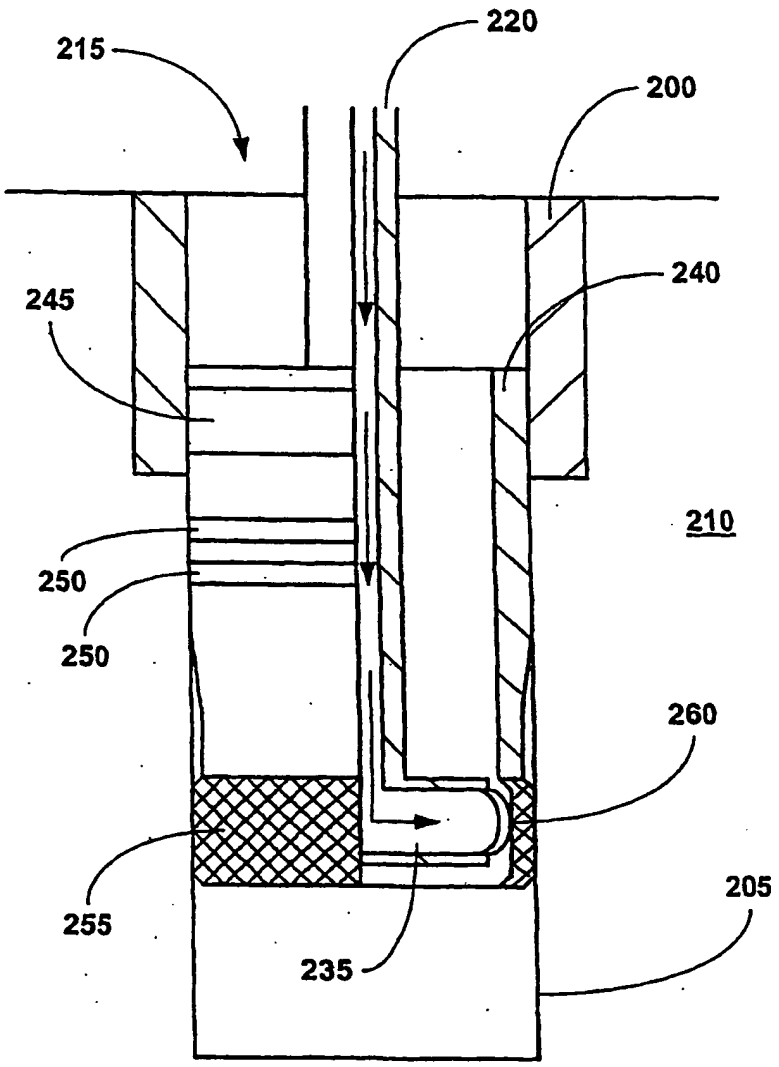

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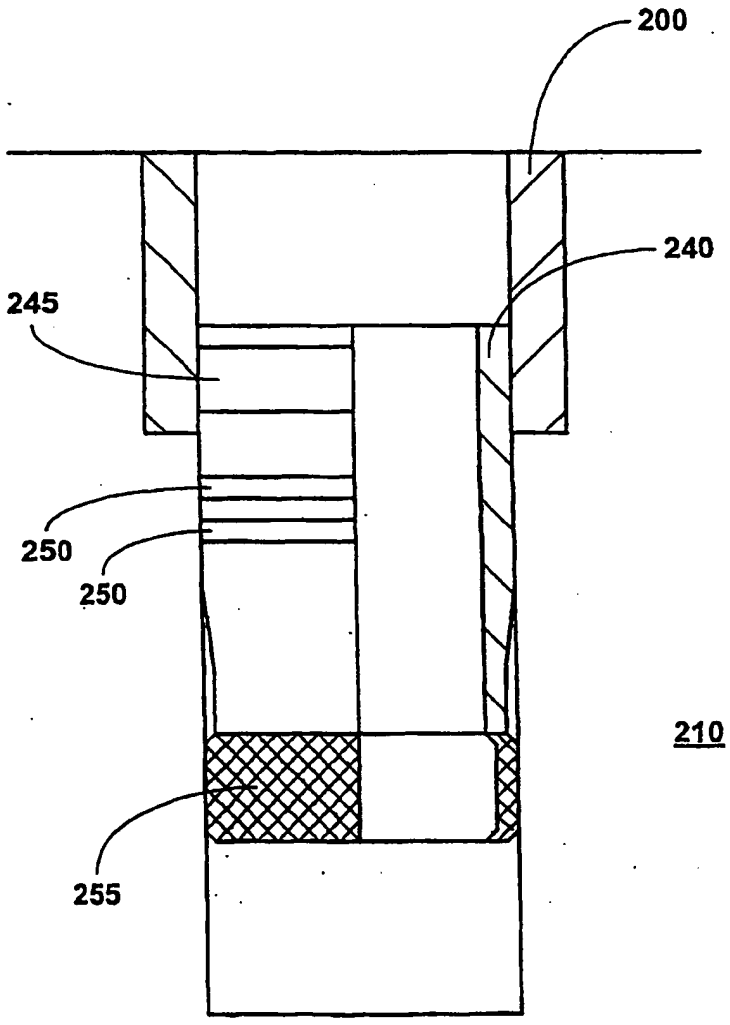

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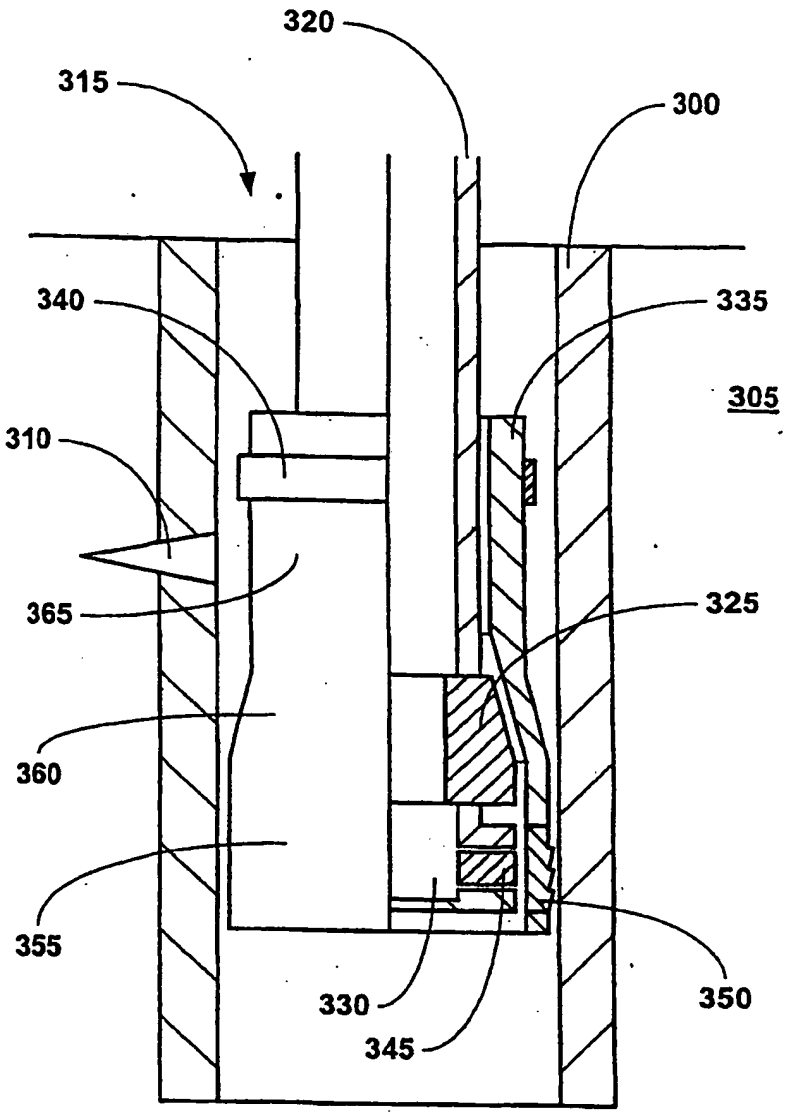
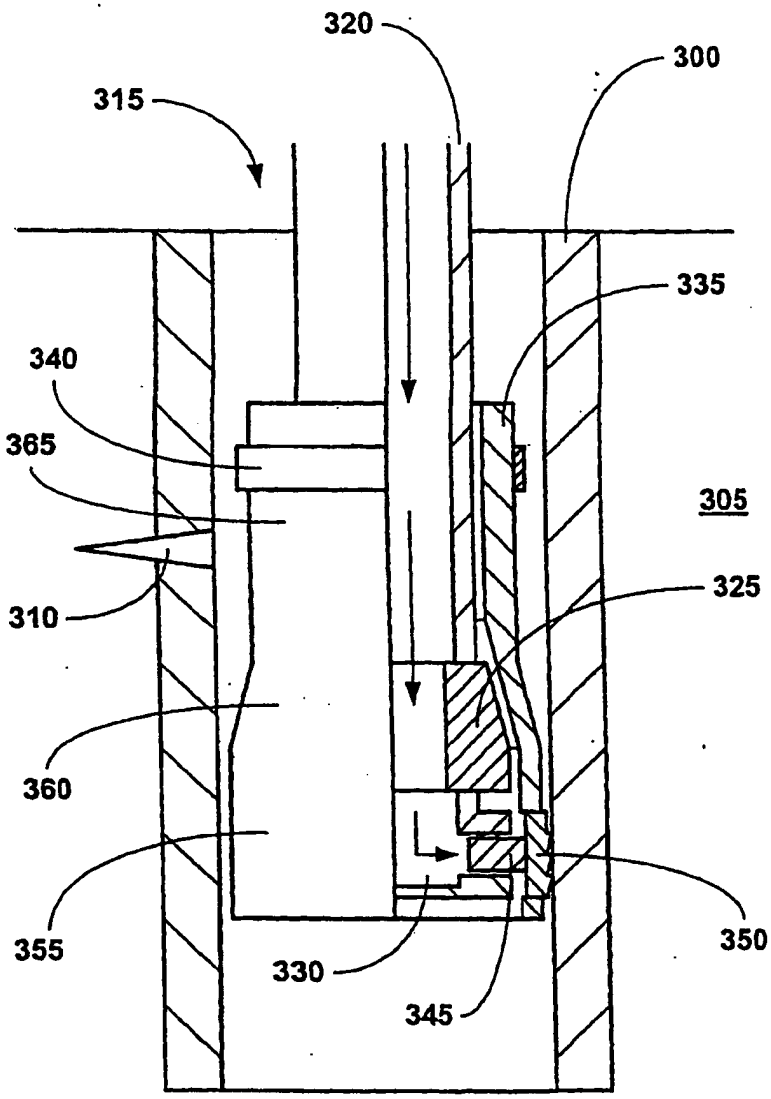


FIGURE 3a



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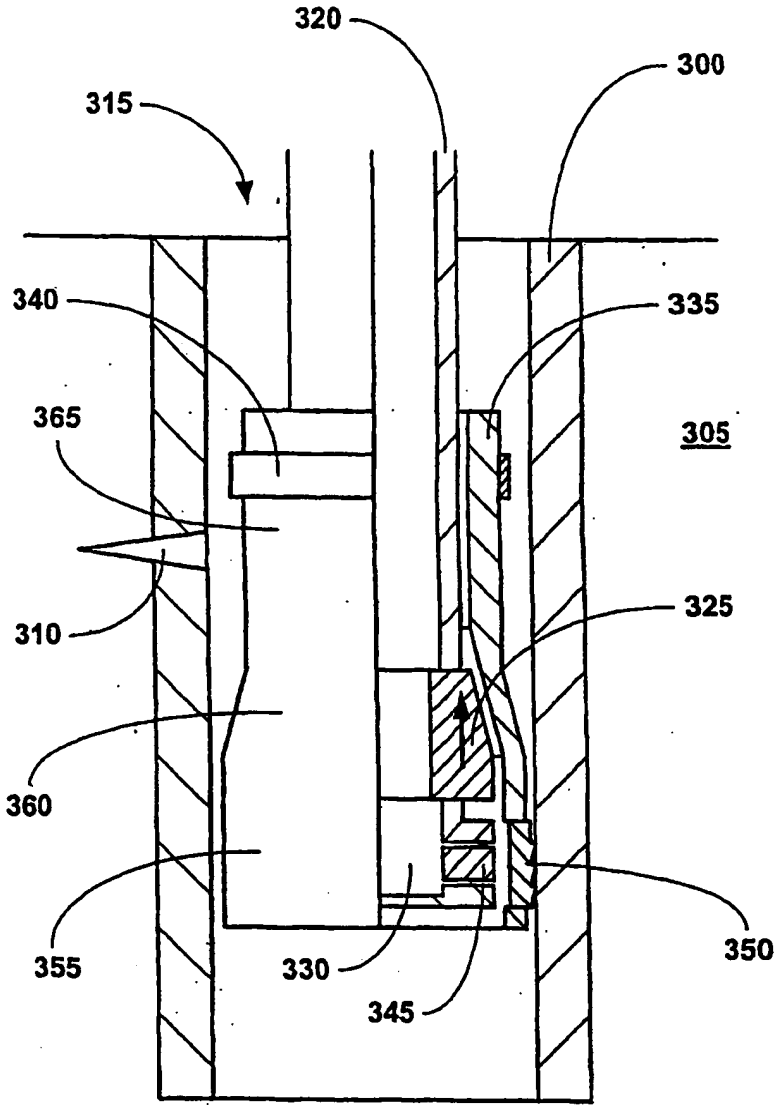

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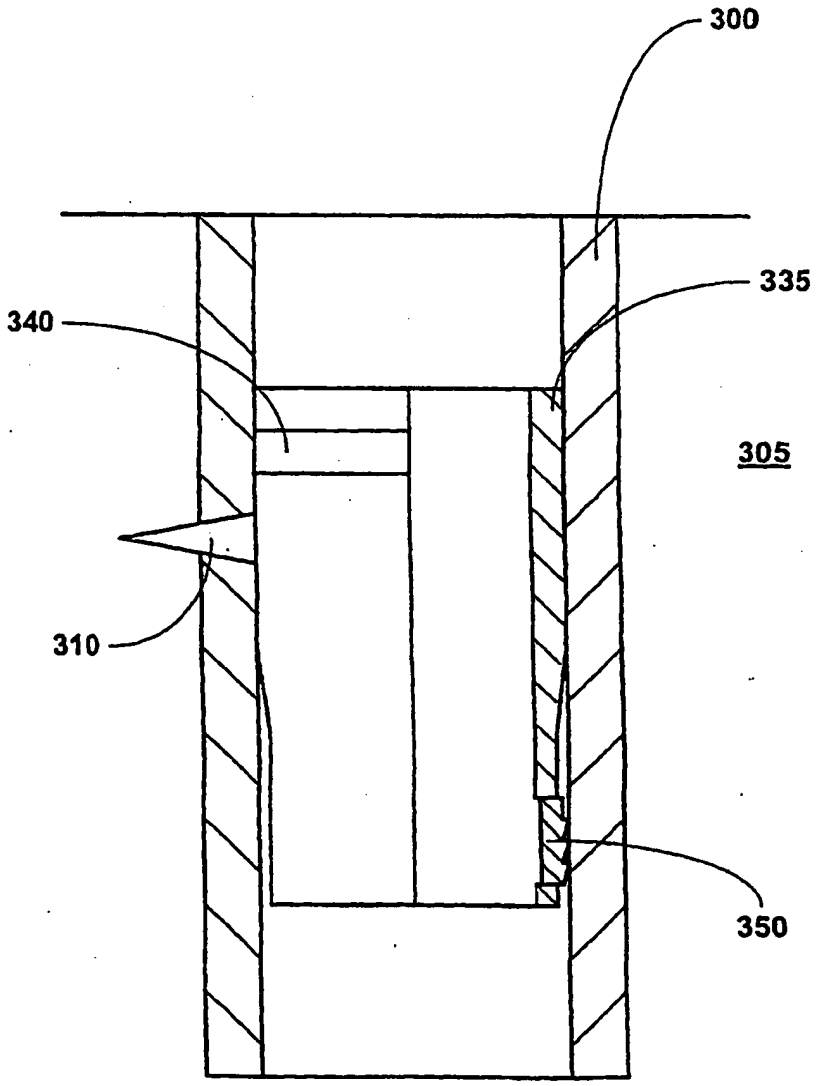

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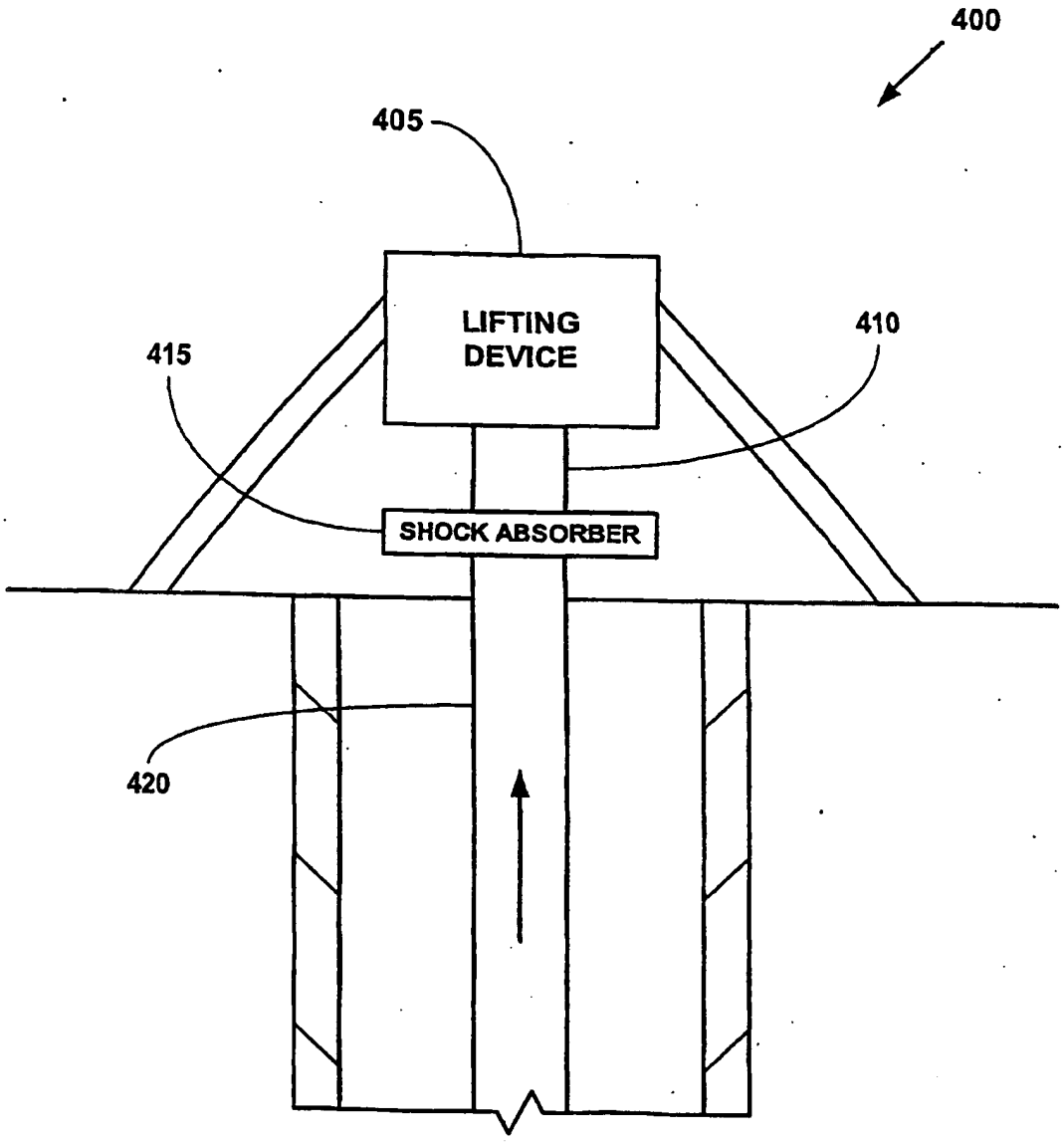

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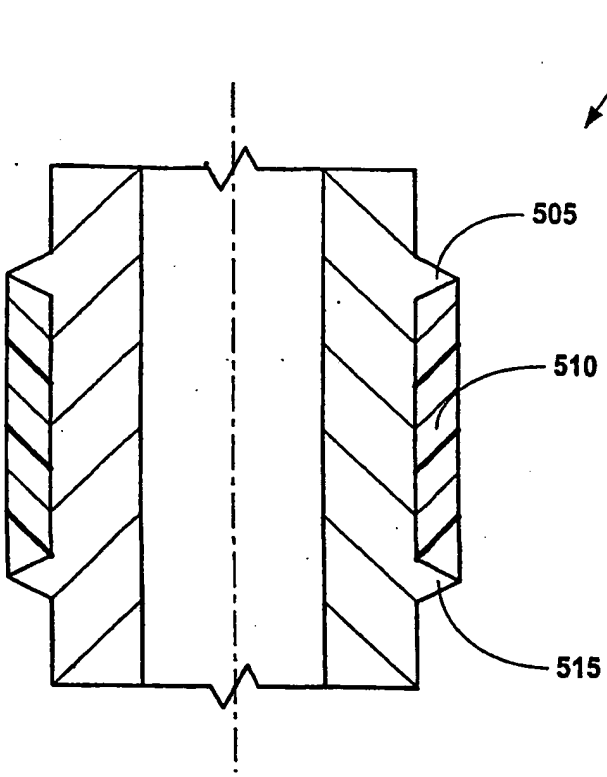

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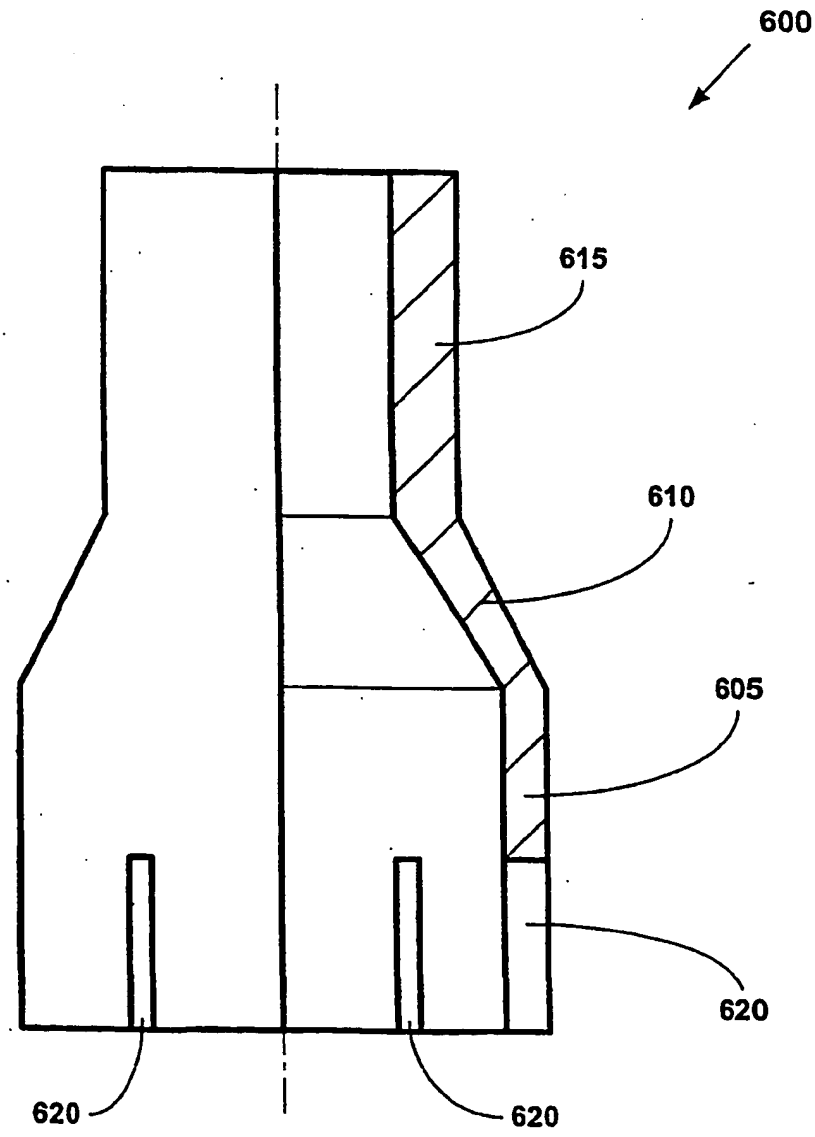

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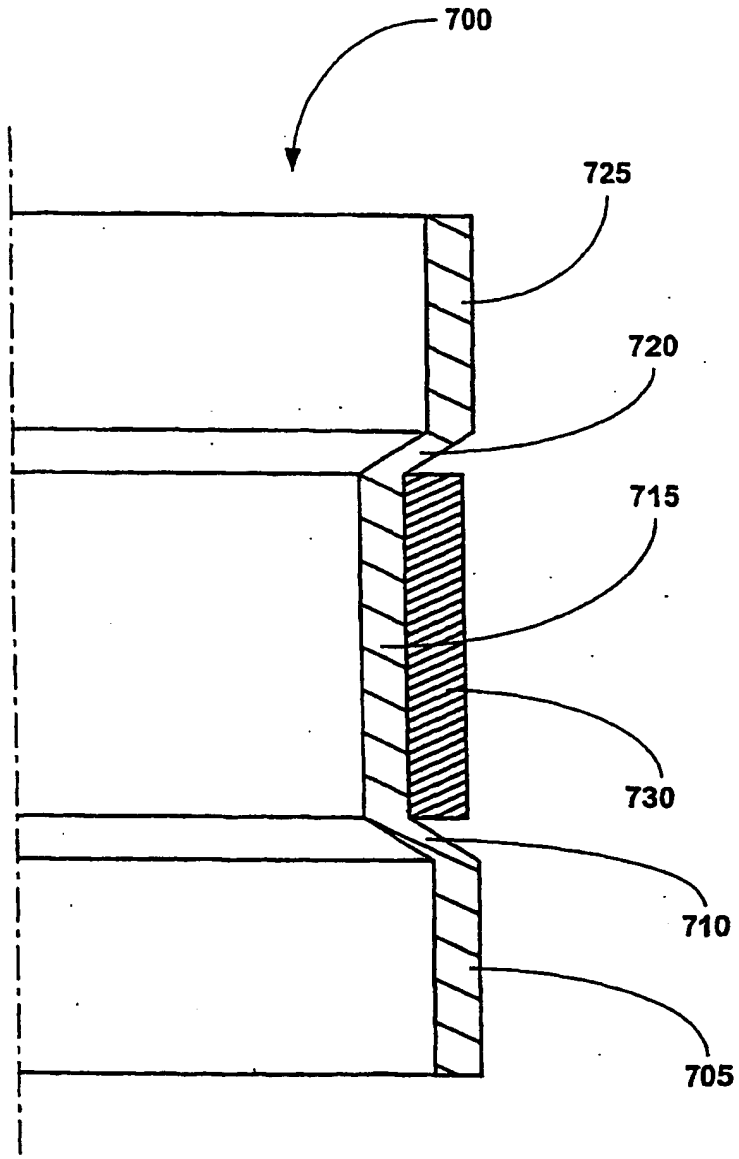

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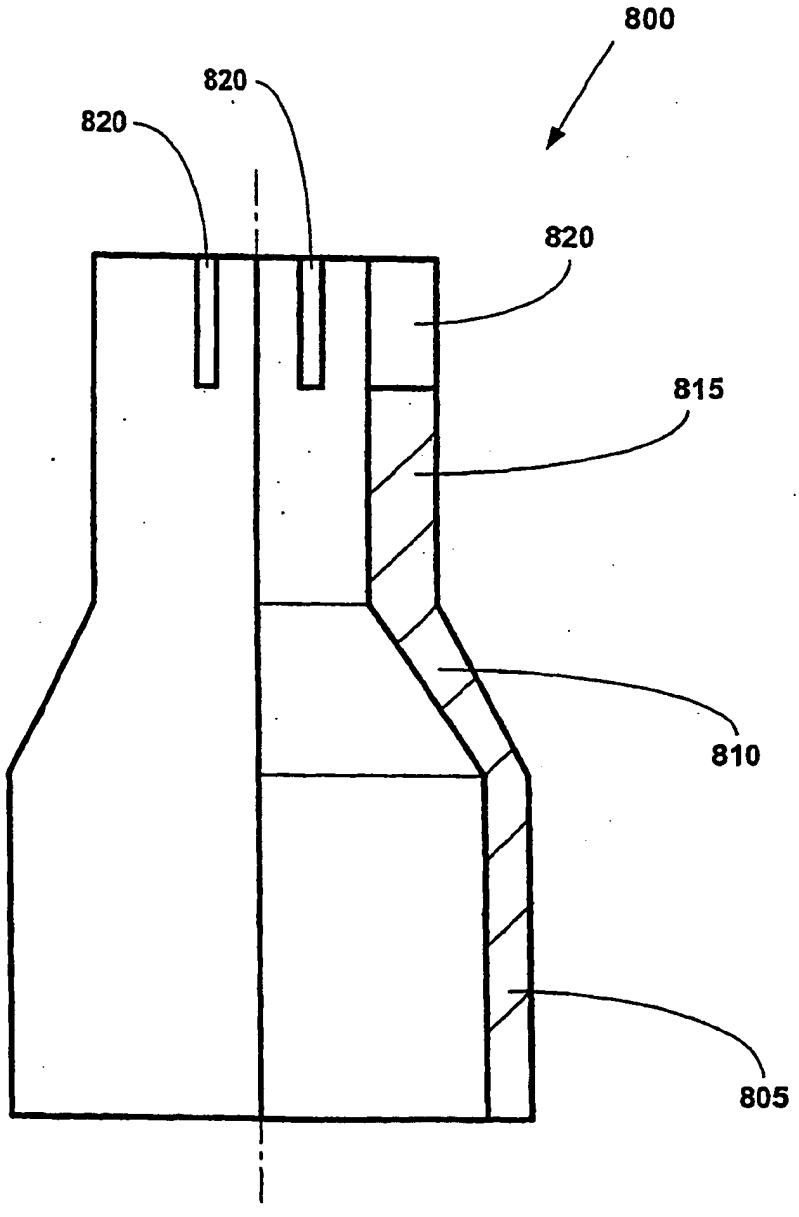

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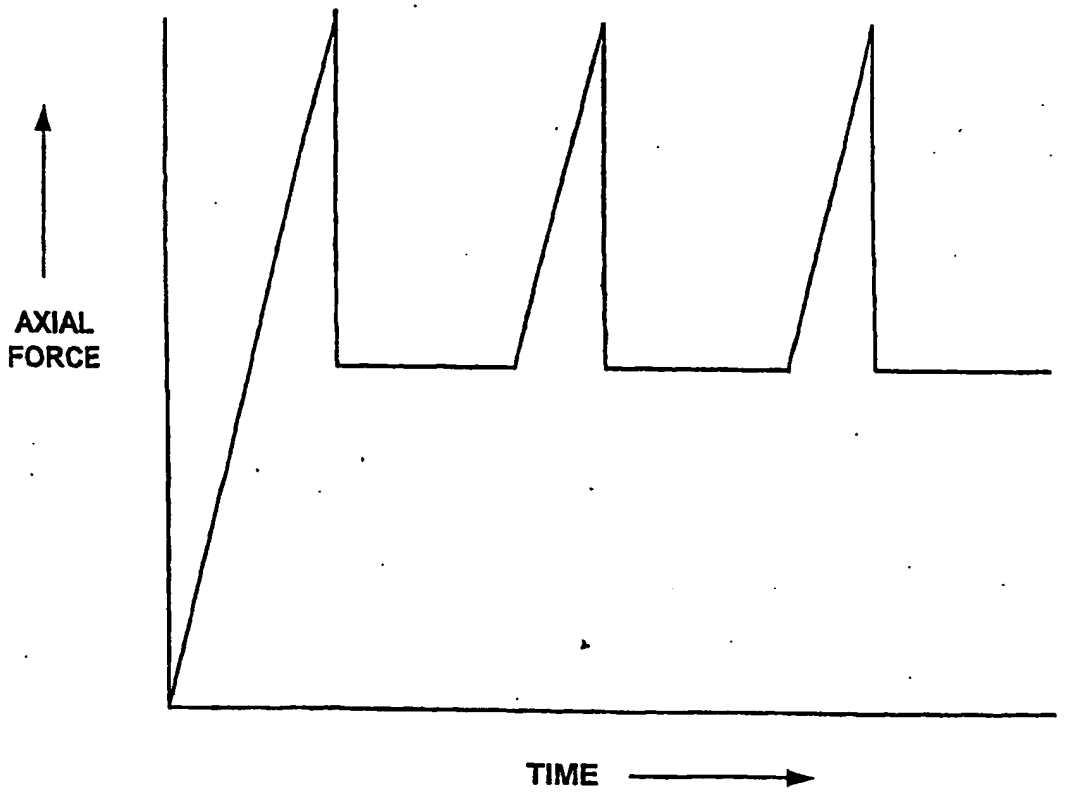

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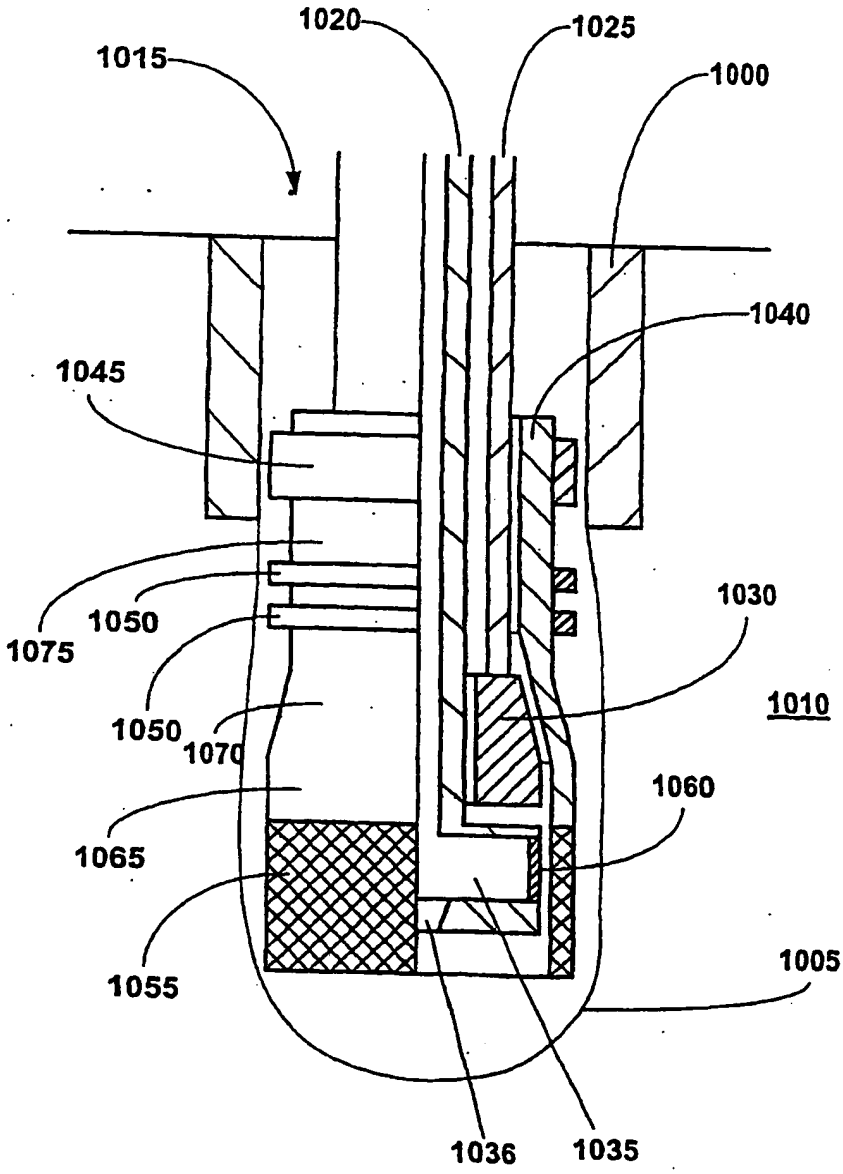
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FIGURE 10a

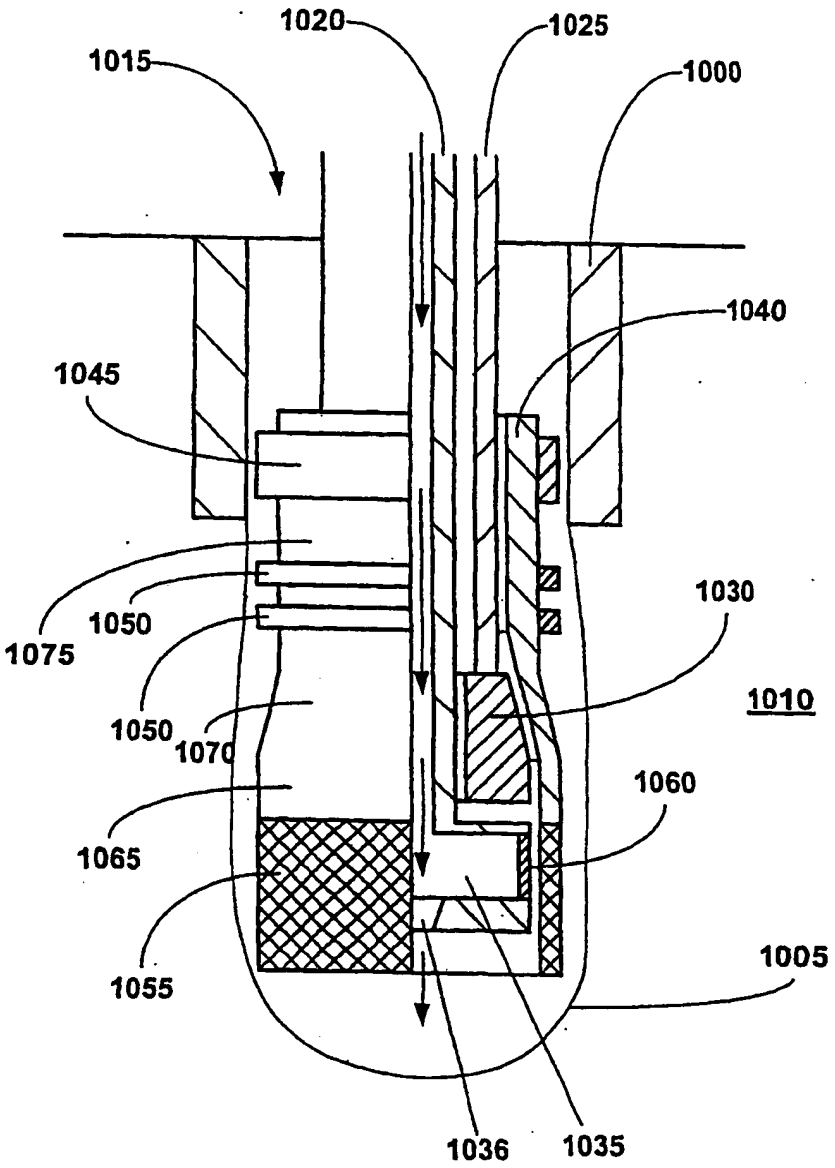
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FIGURE 10b

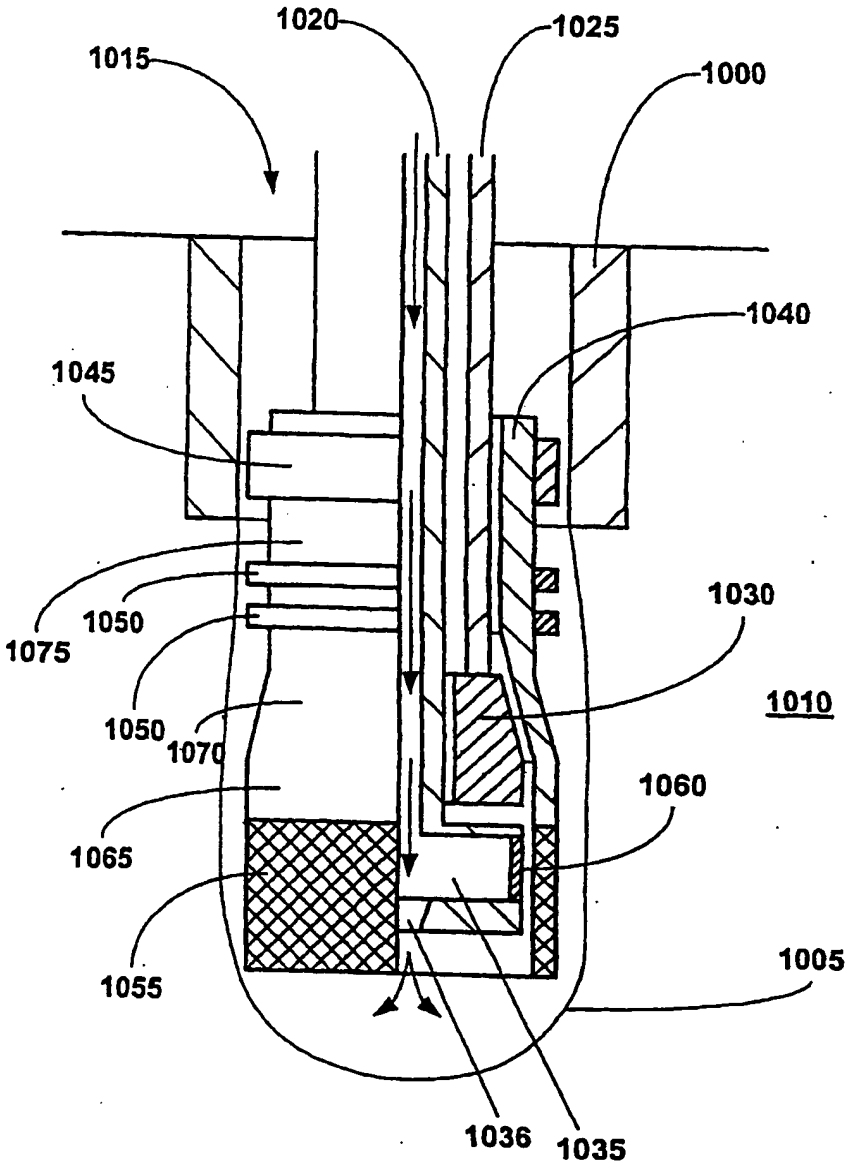
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FIGURE 10c

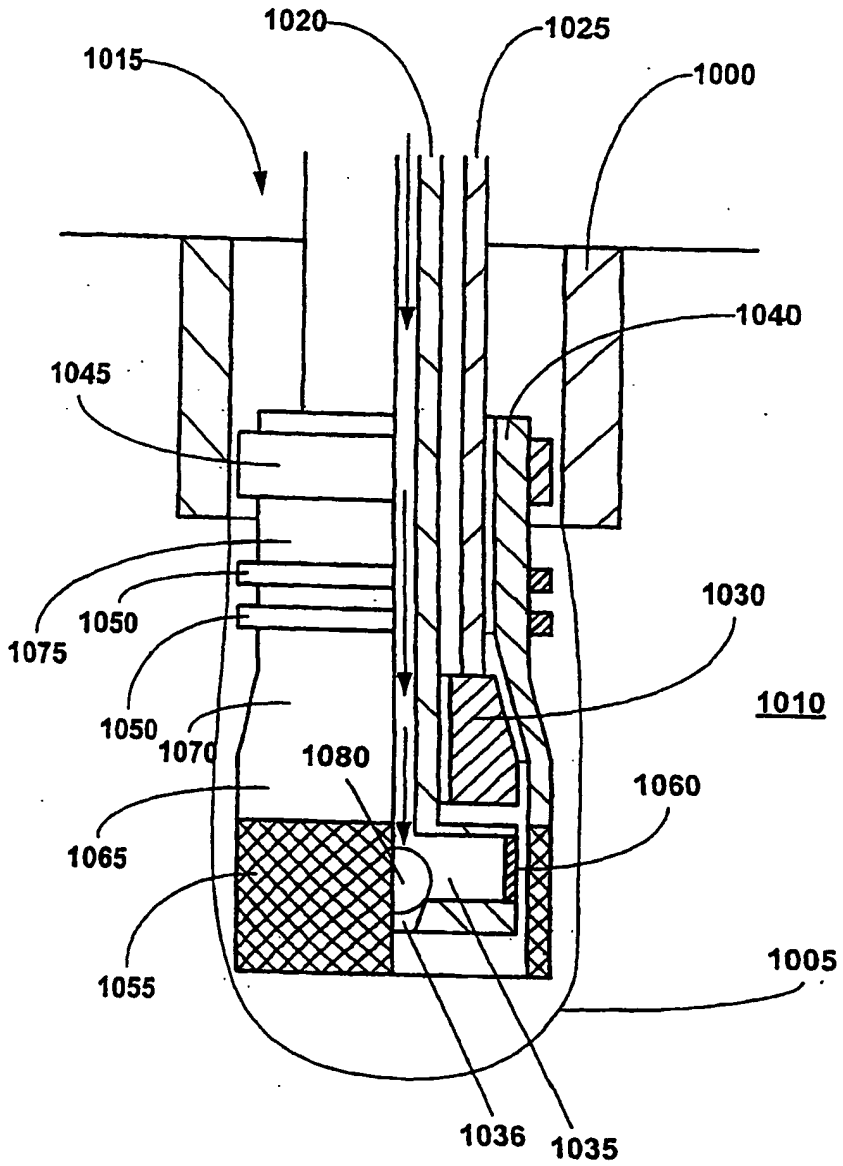
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FIGURE 10d

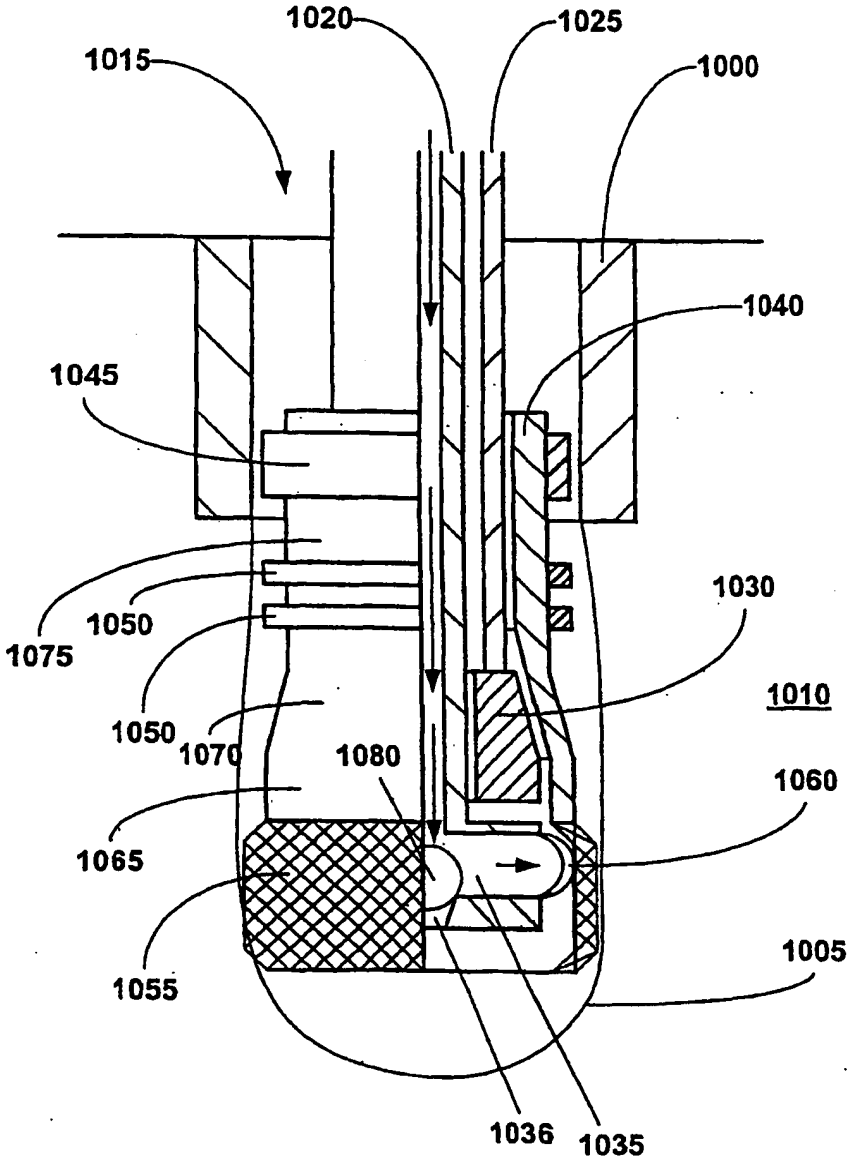
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FIGURE 10e

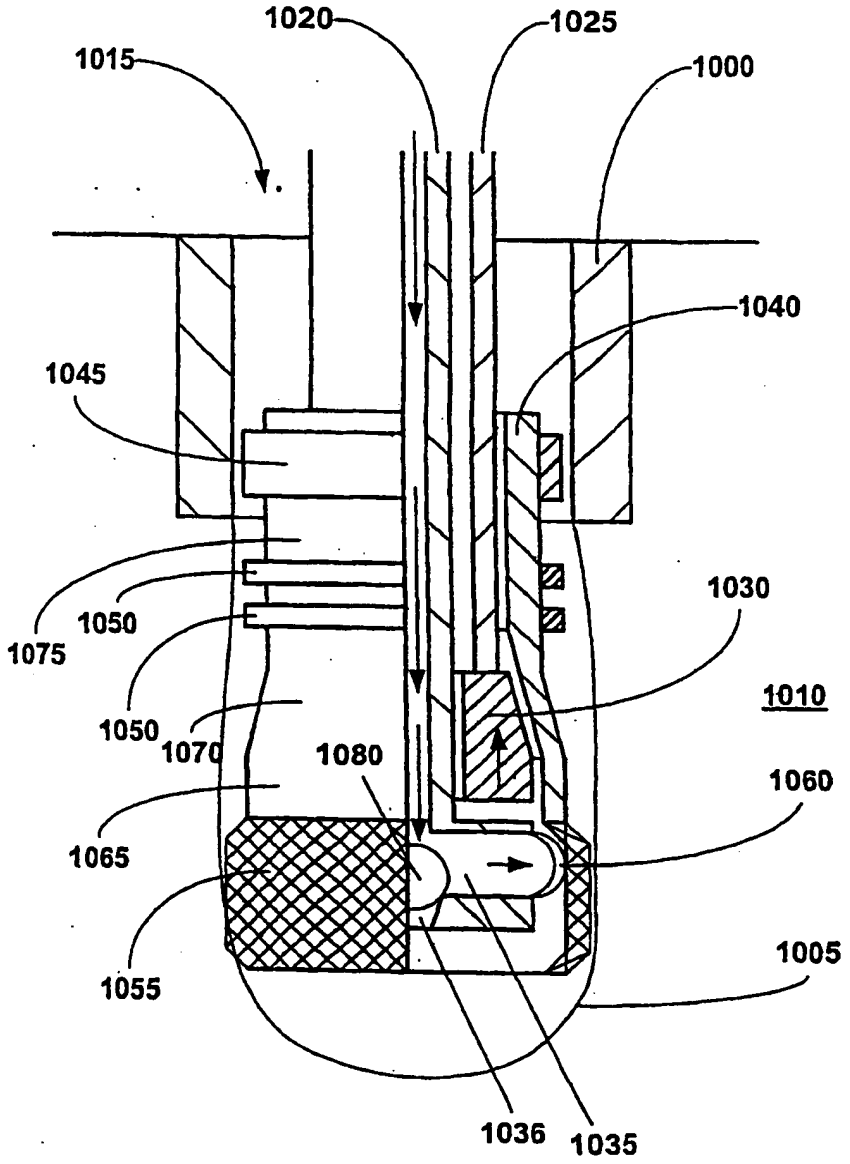
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FIGURE 10f

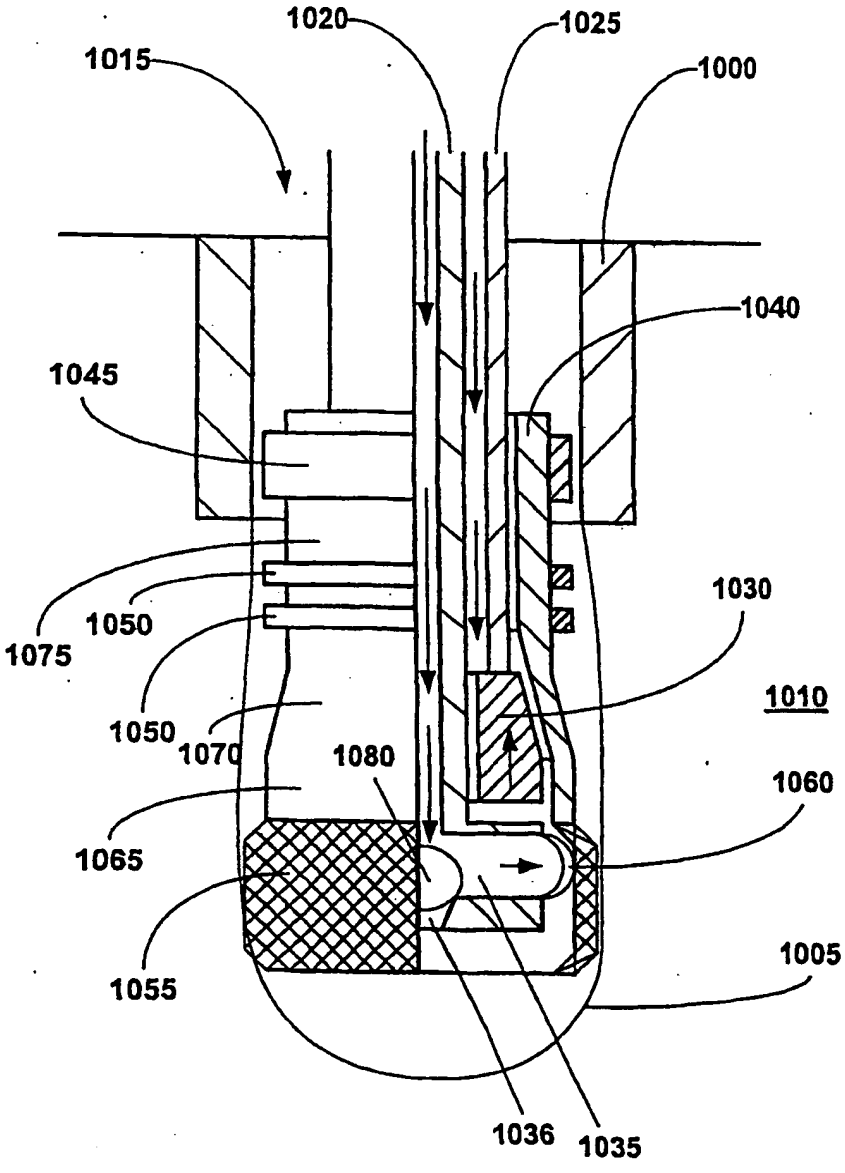
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FIGURE 10g

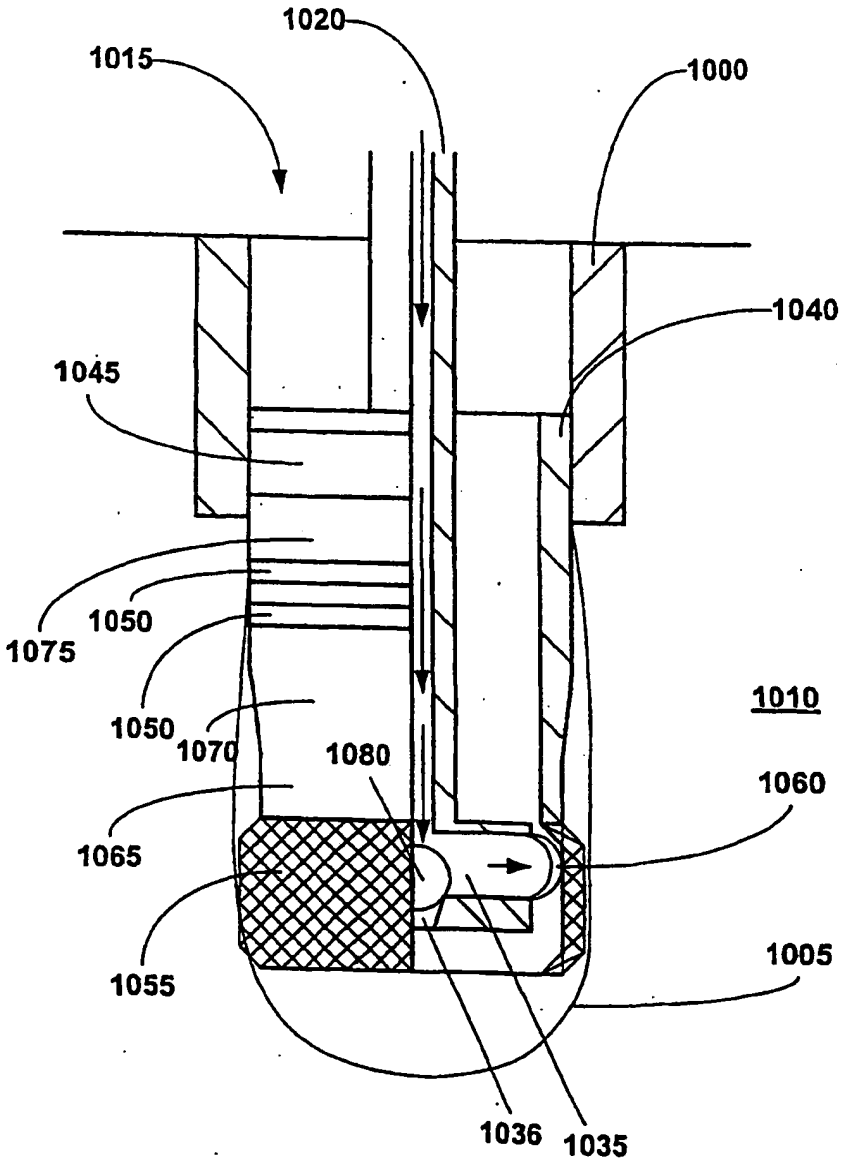
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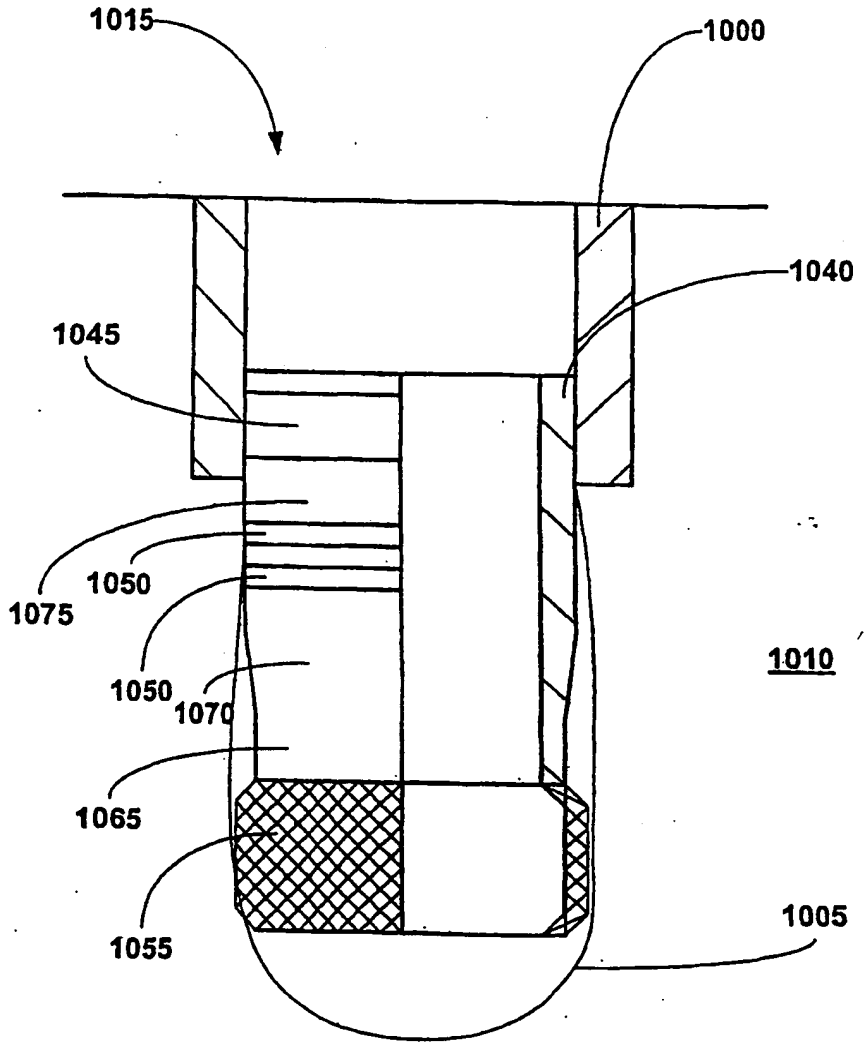
FIGURE 10h



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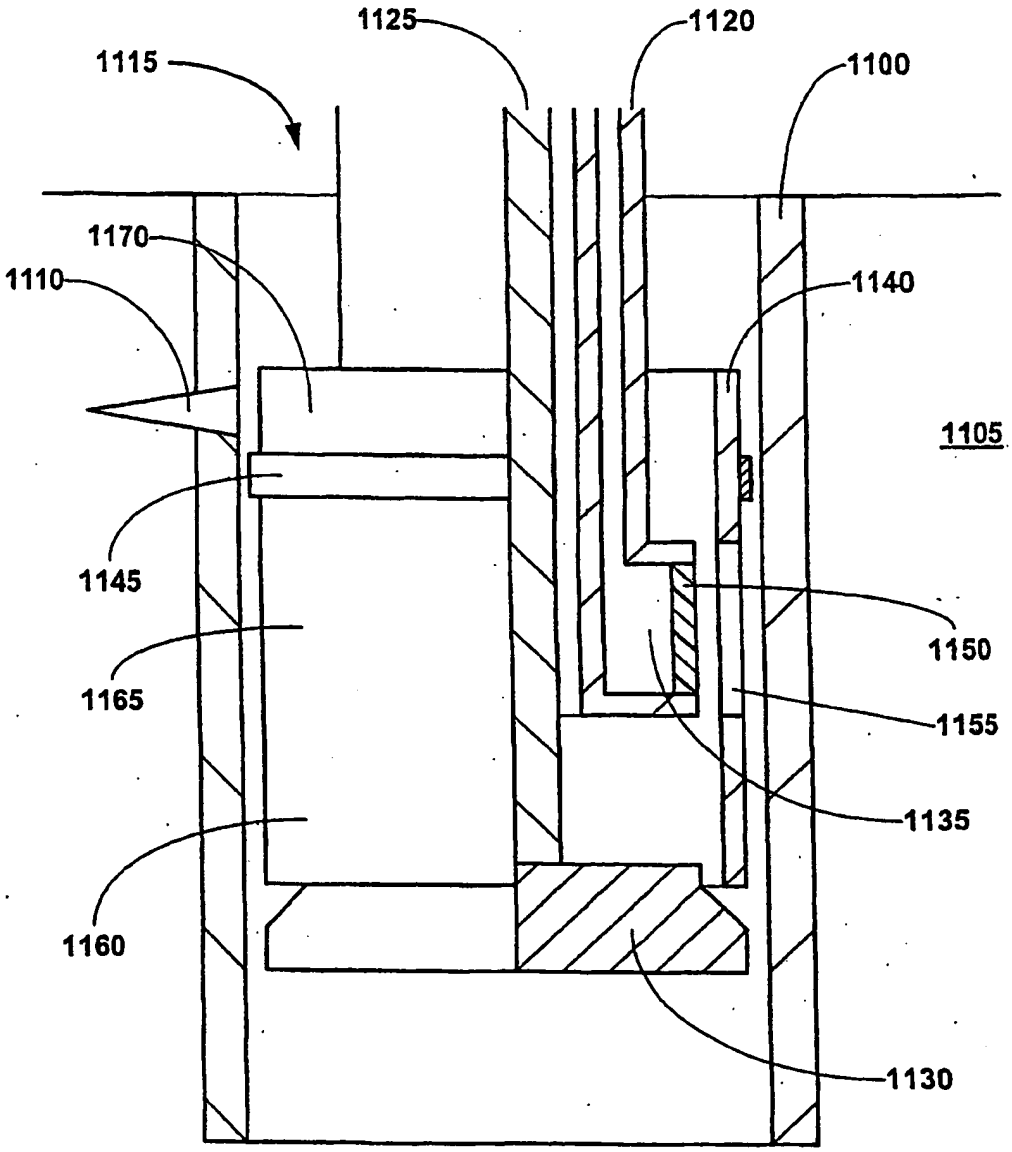
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FIGURE 11a

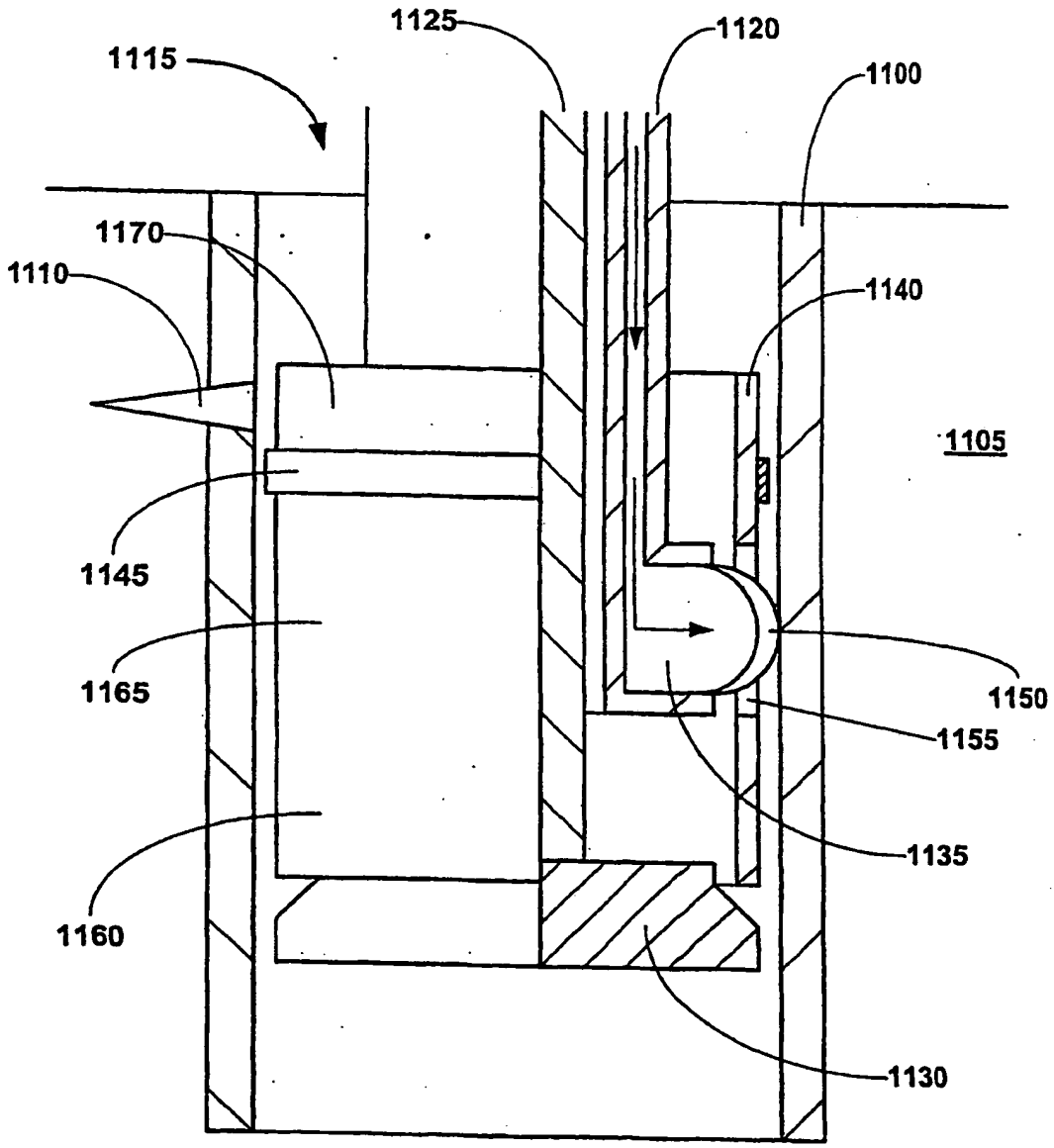
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FIGURE 11b

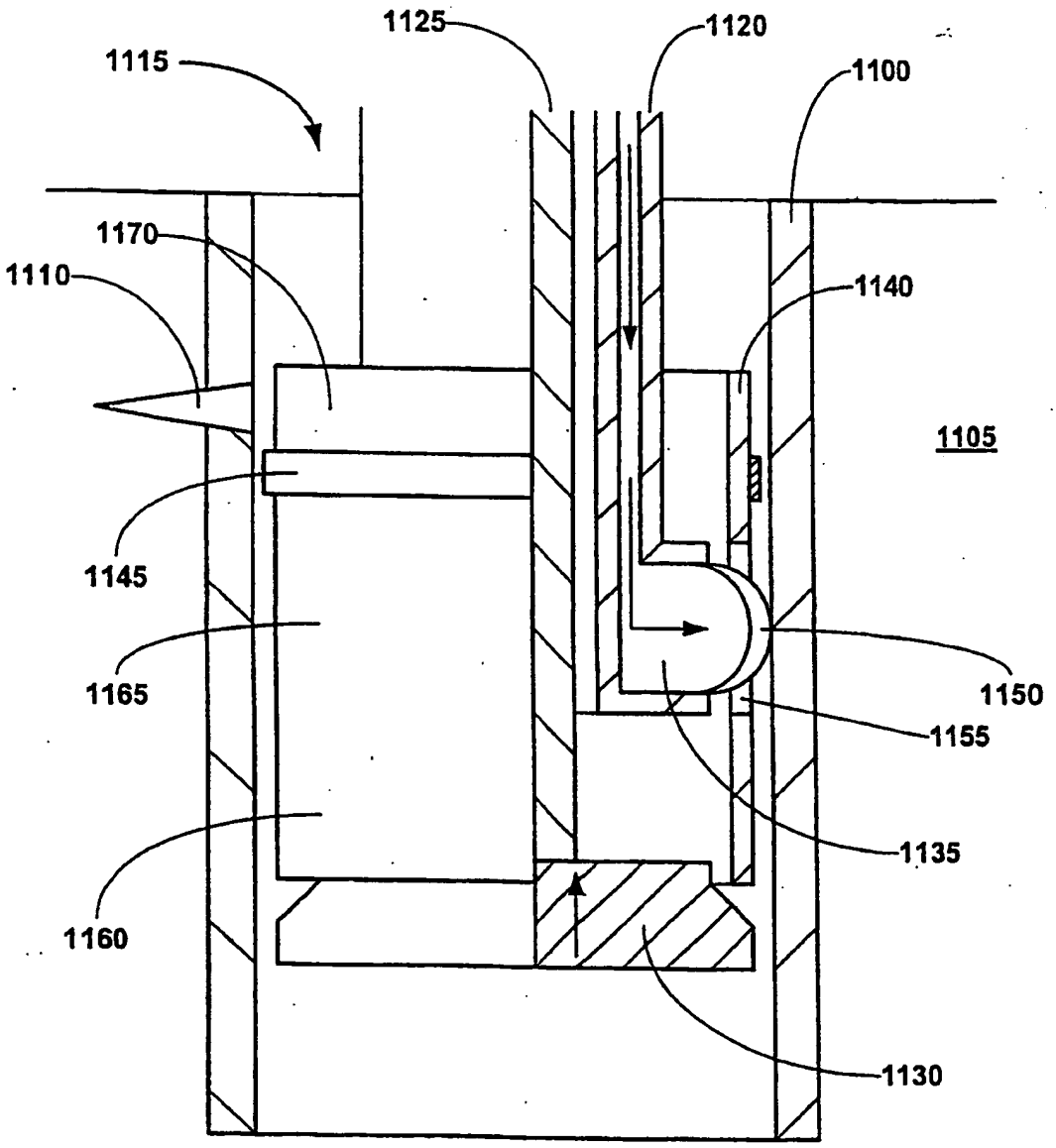
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FIGURE 11c

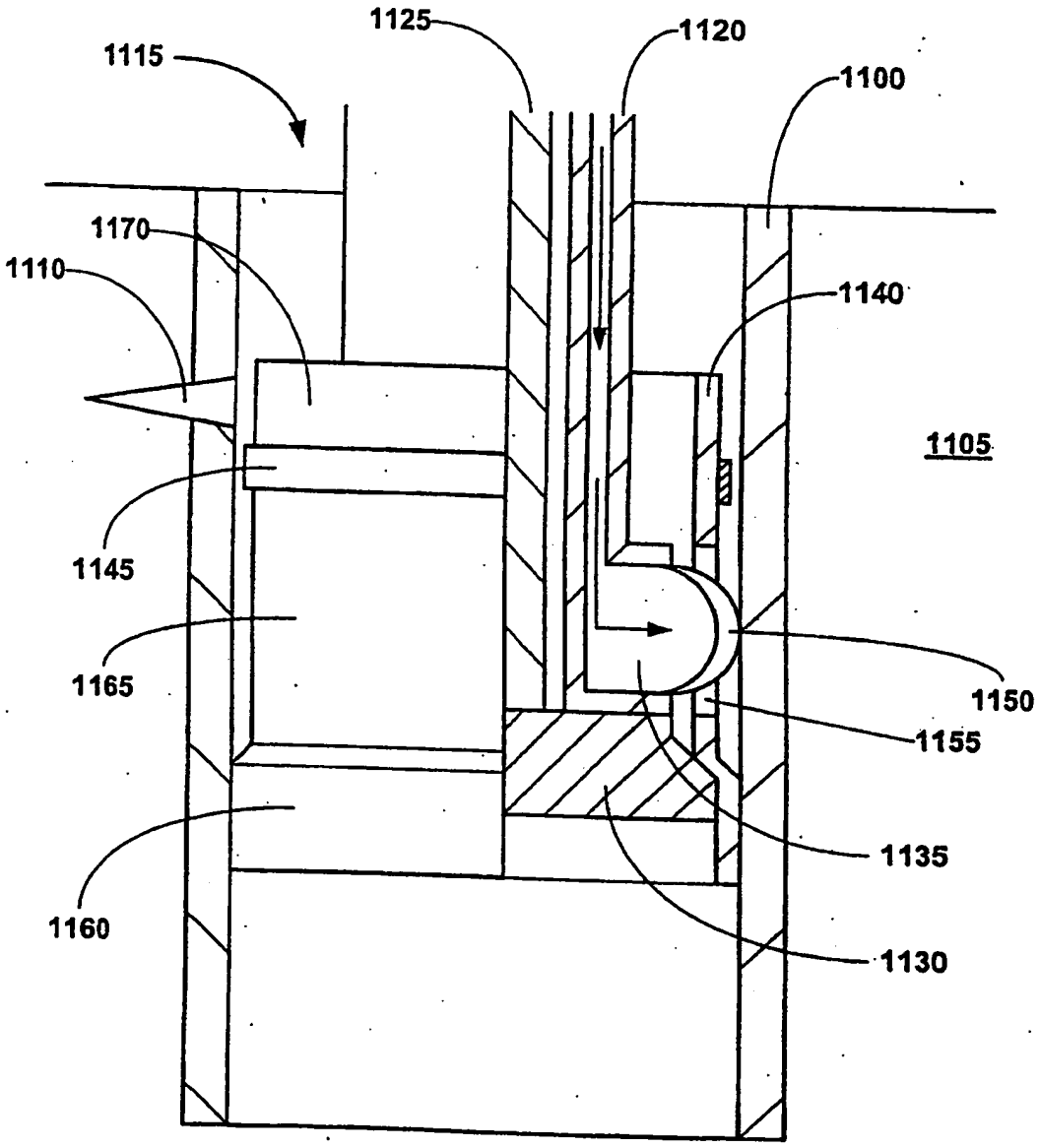
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FIGURE 11d

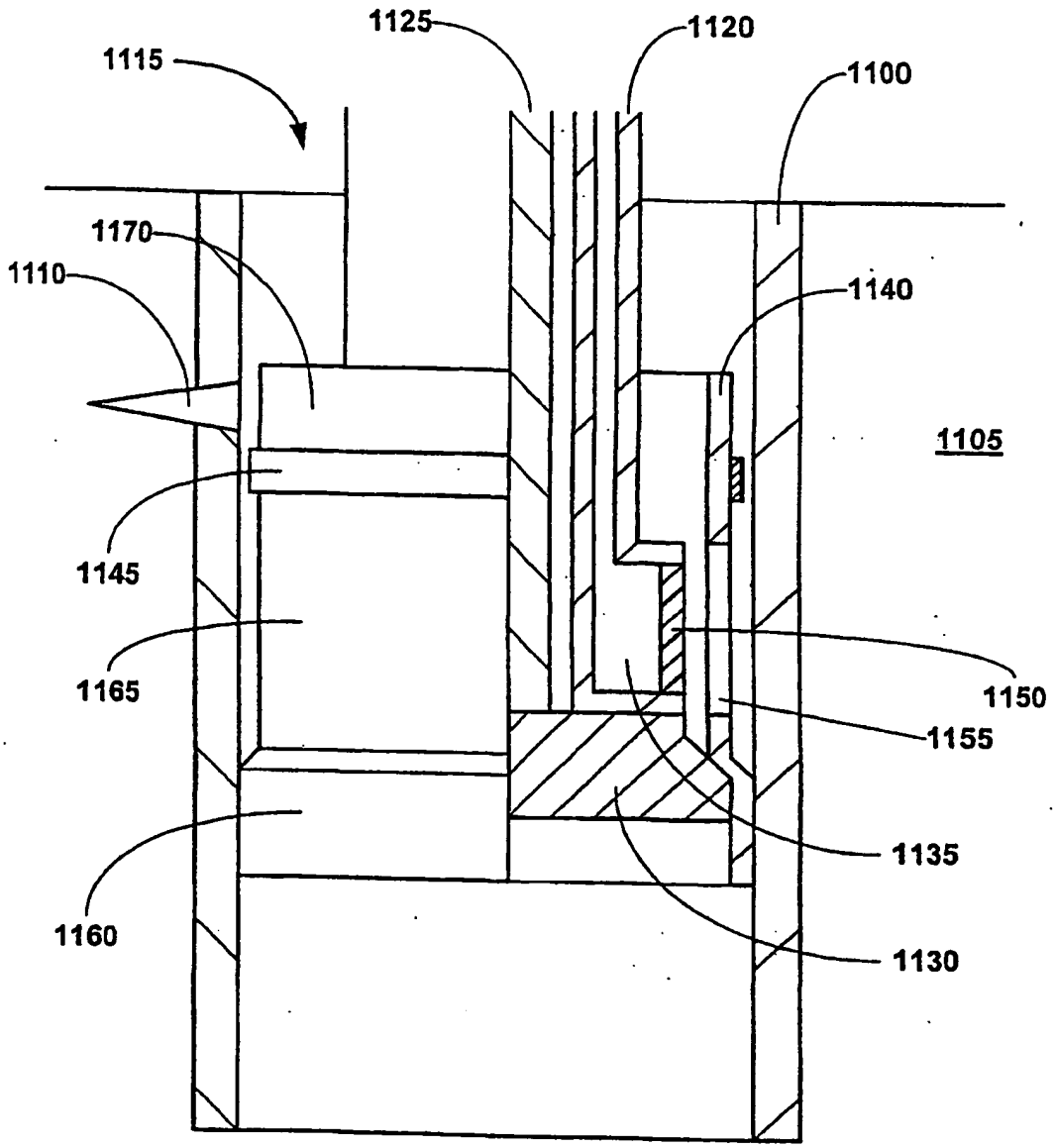
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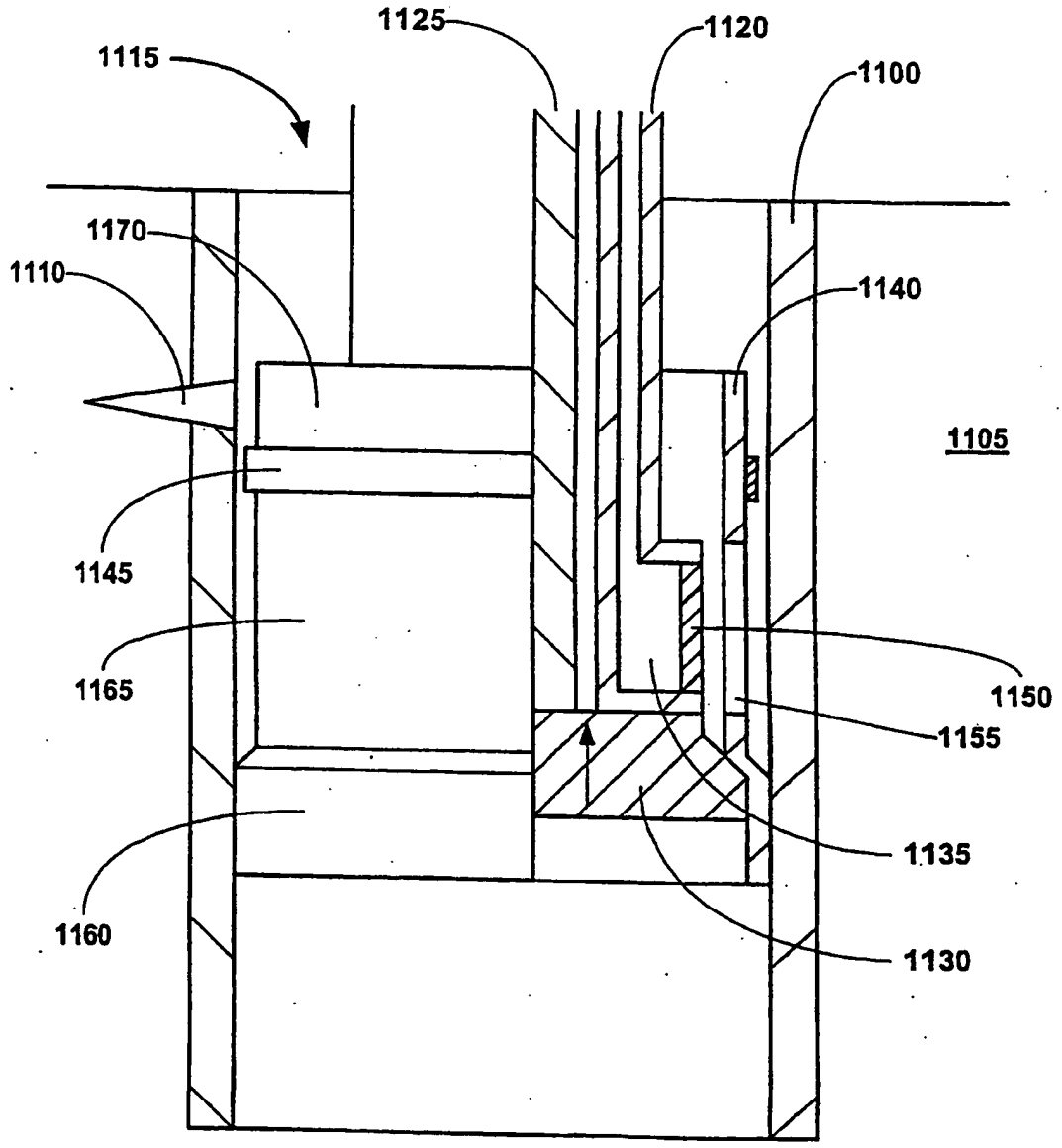
FIGURE 11e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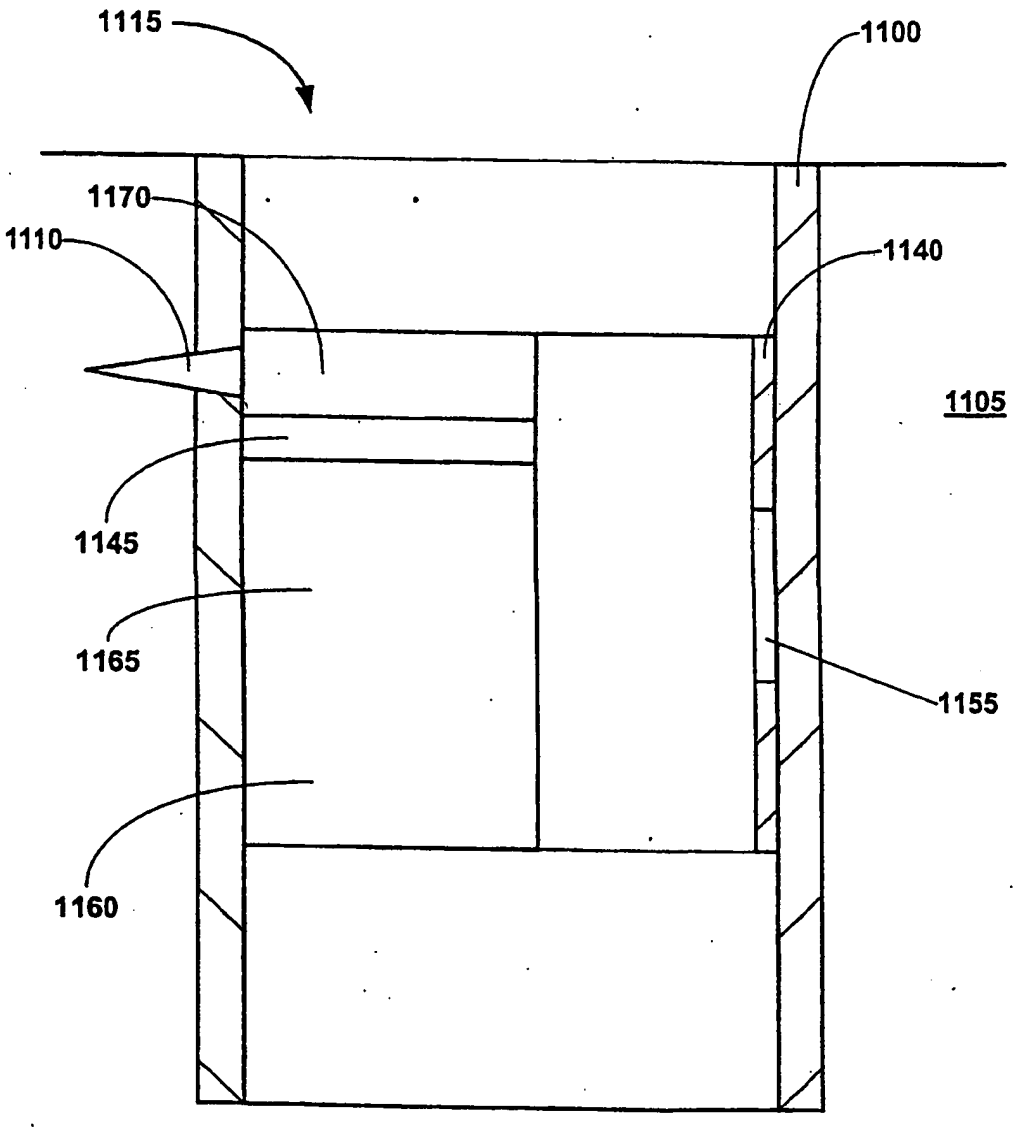


FIGURE 11g

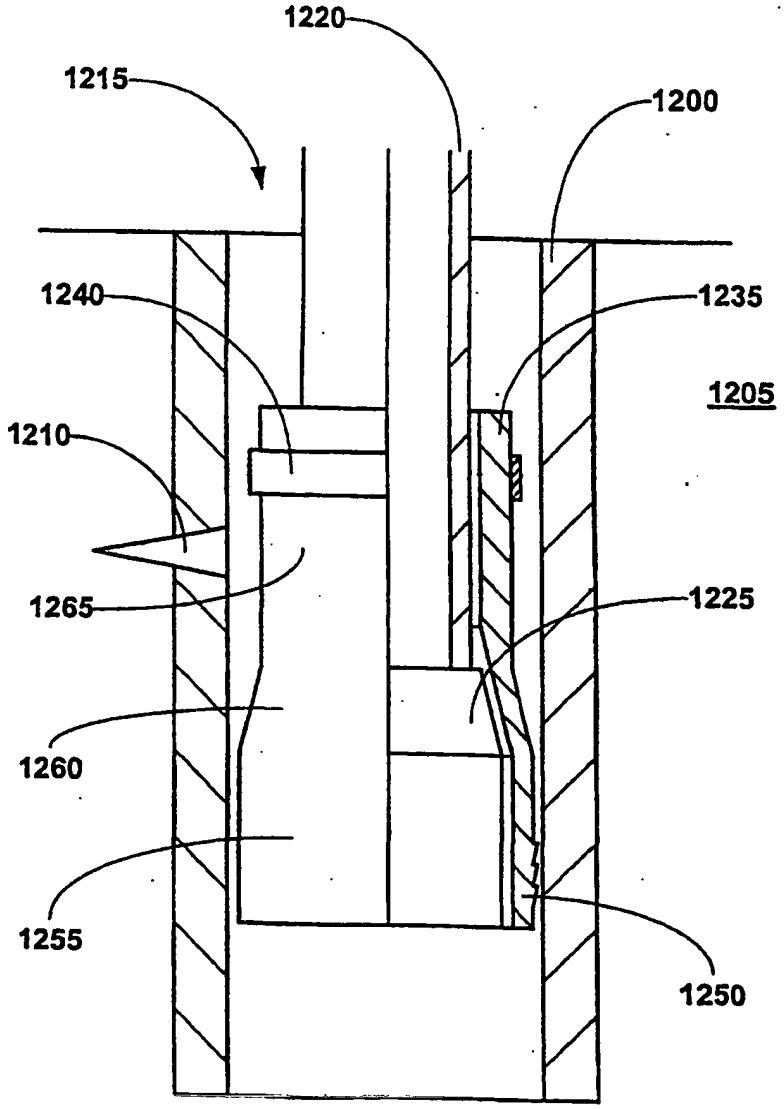
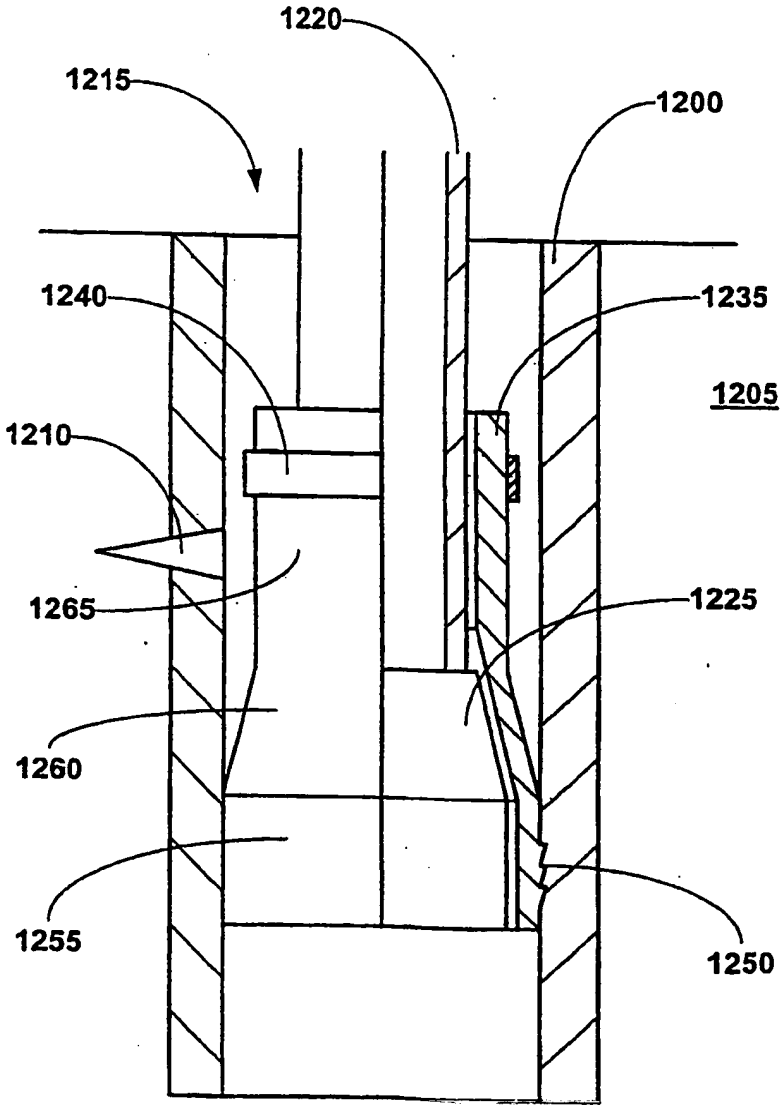


FIGURE 12a



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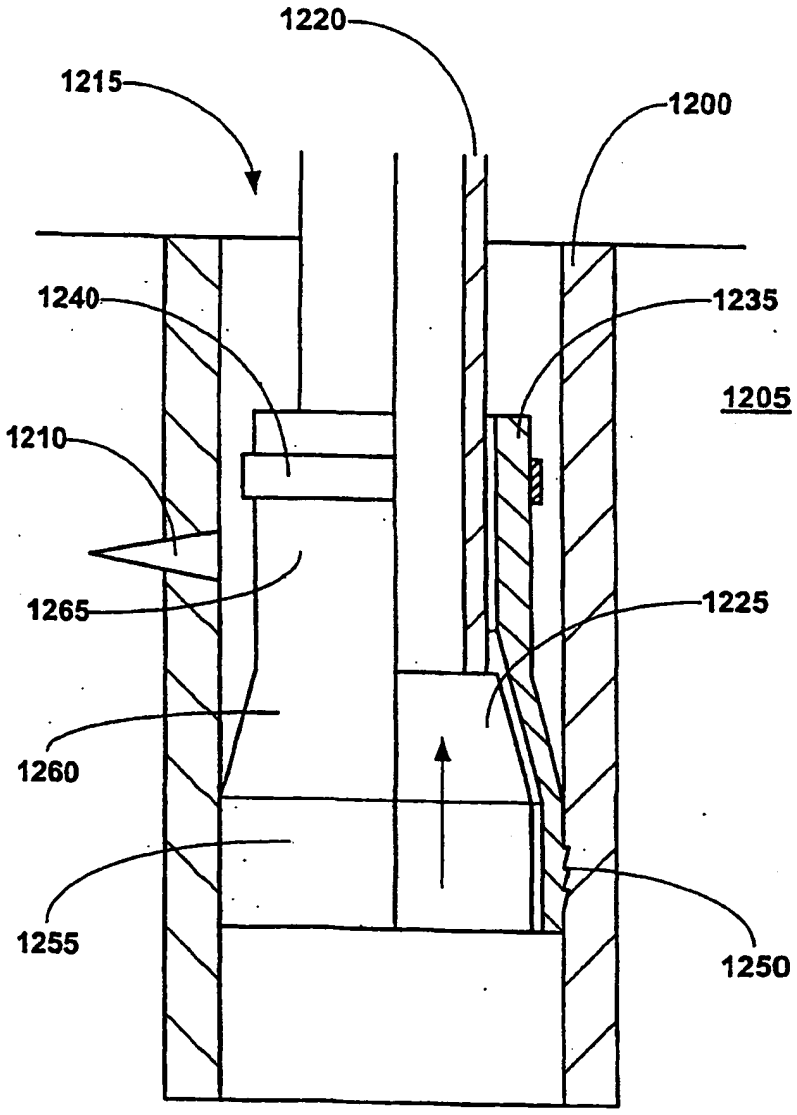

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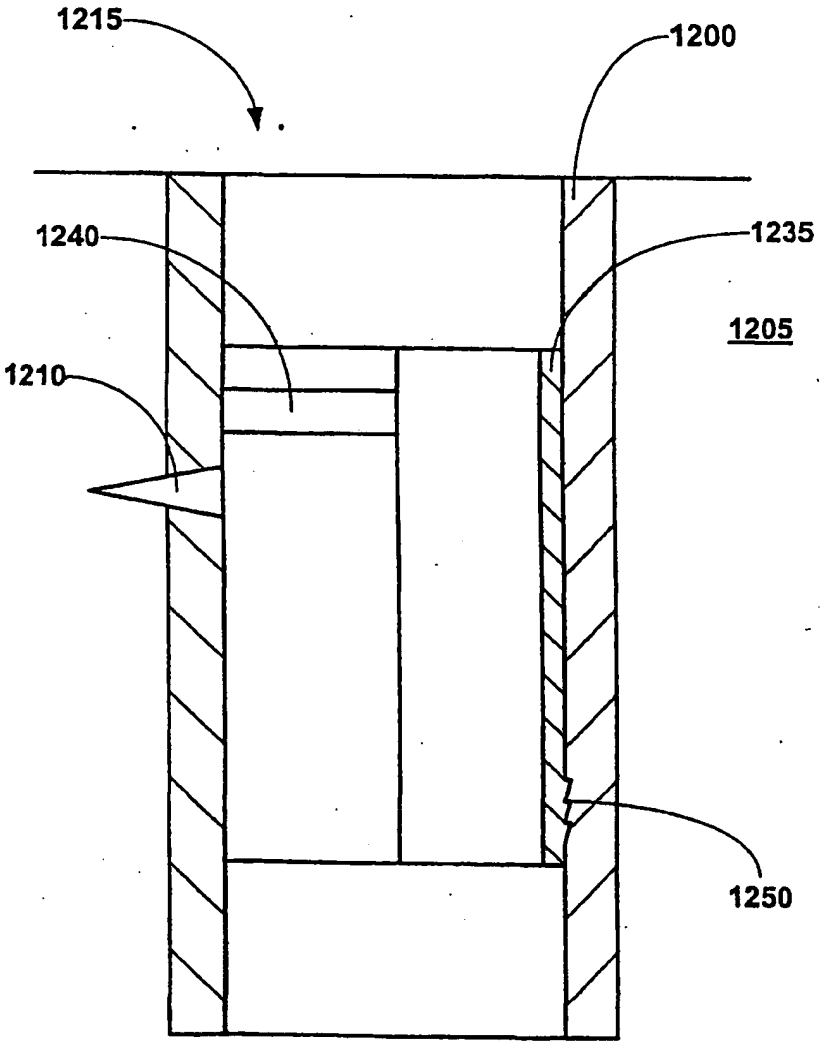

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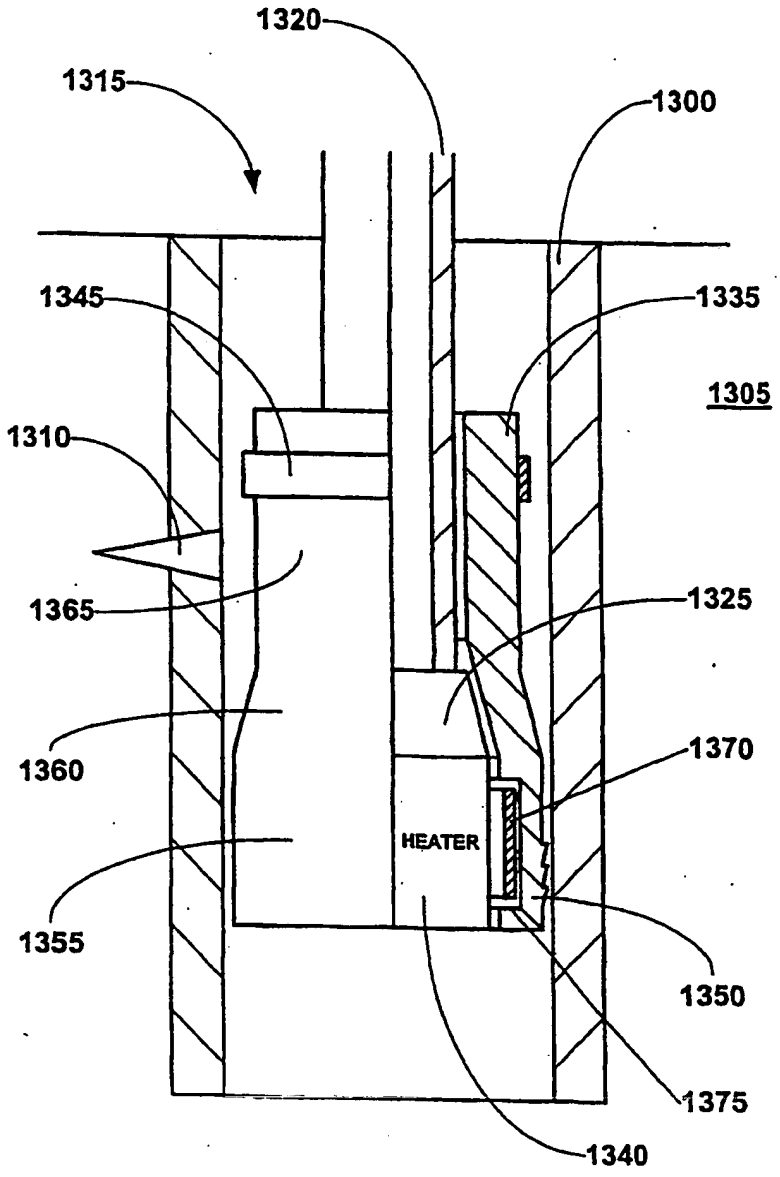
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FIGURE 13a

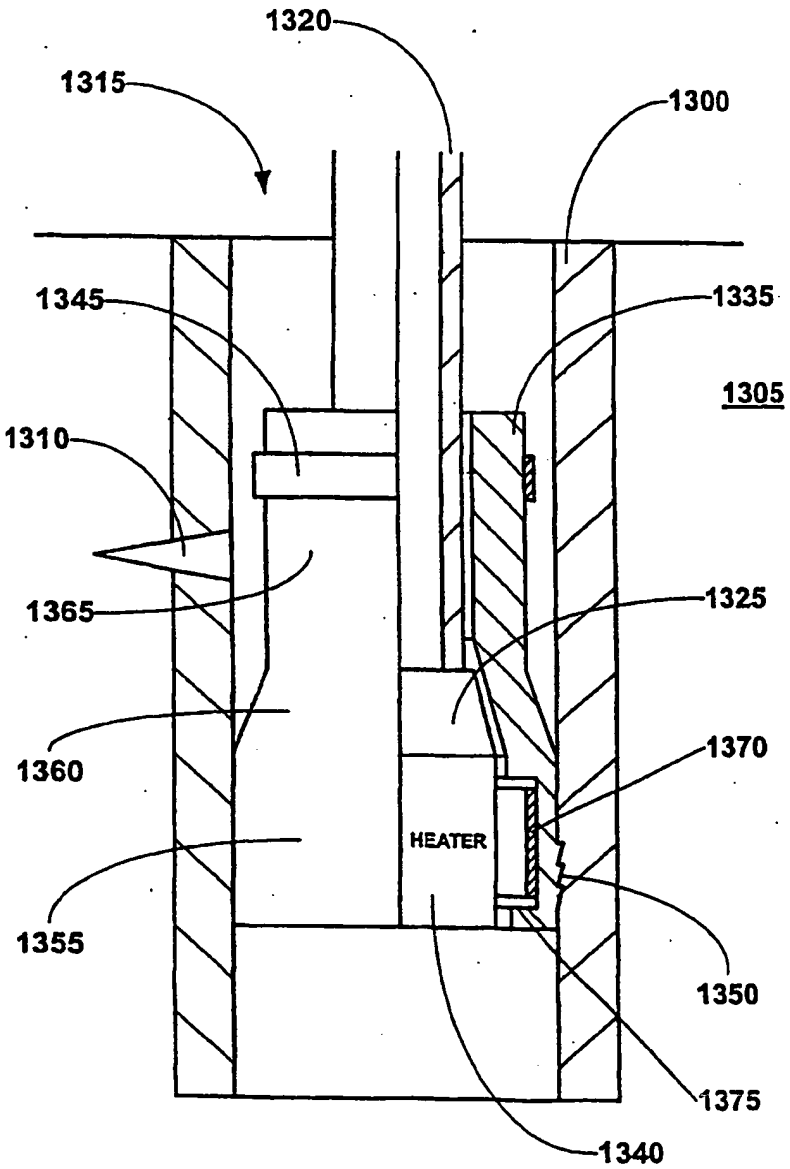
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FIGURE 13b

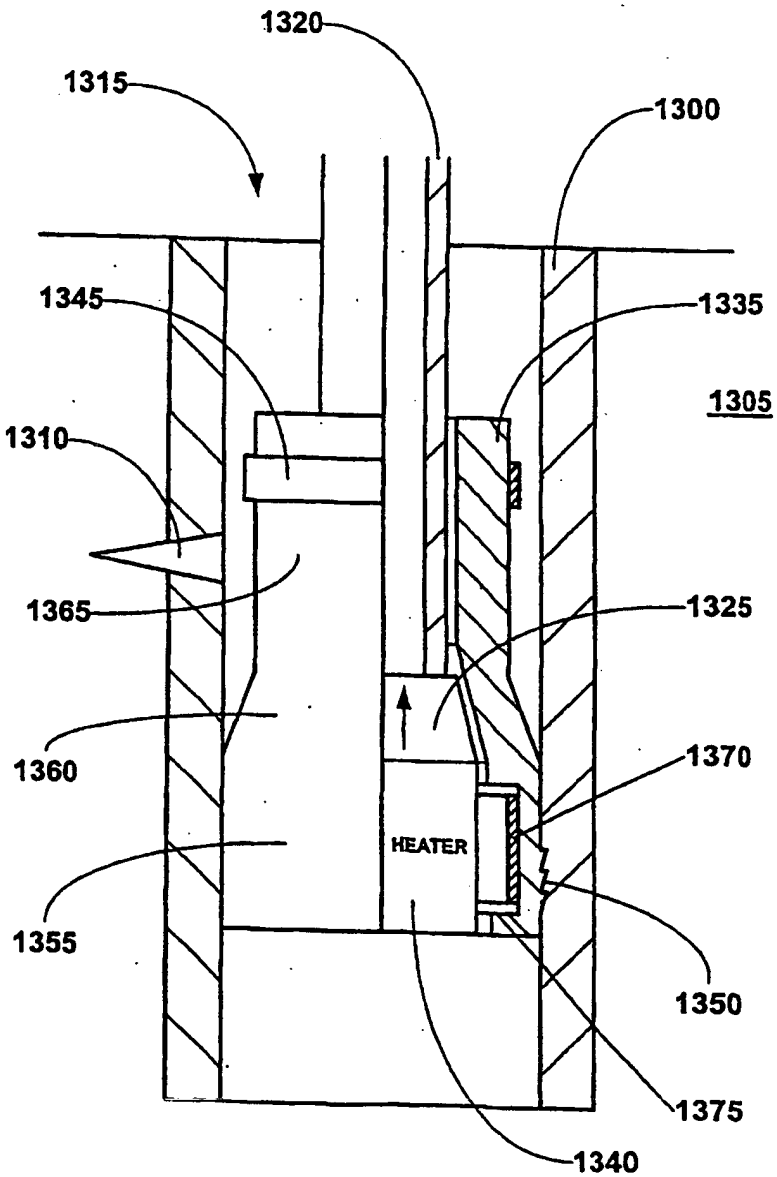
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FIGURE 13c

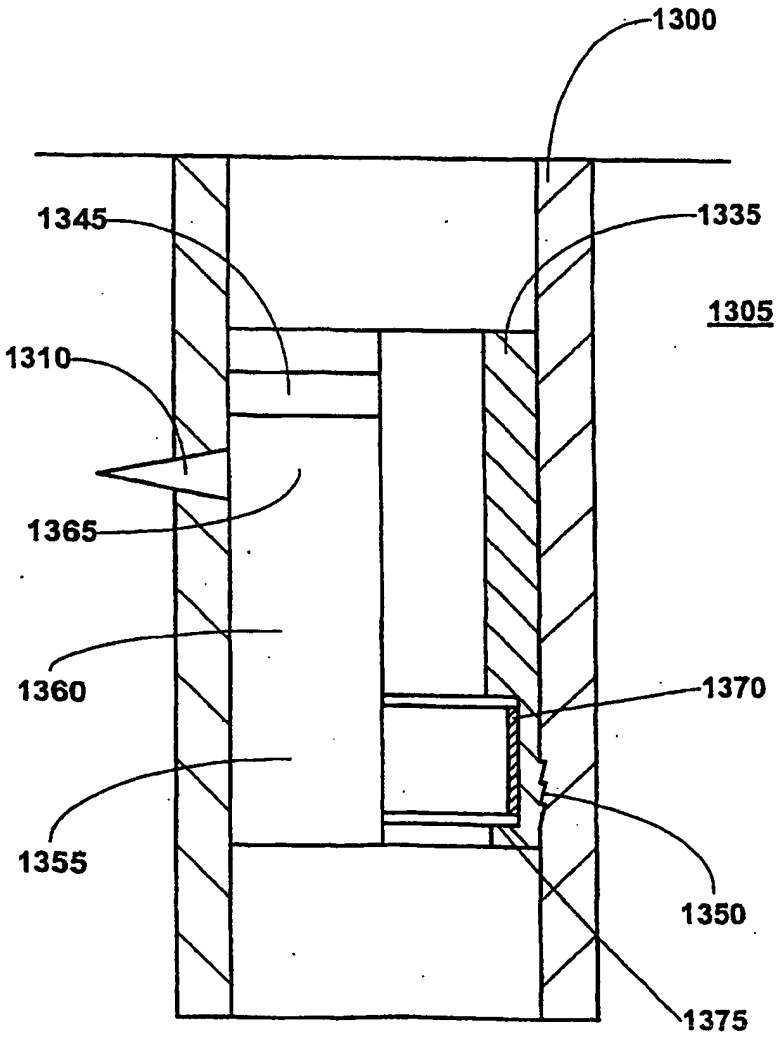

FIGURE 13d

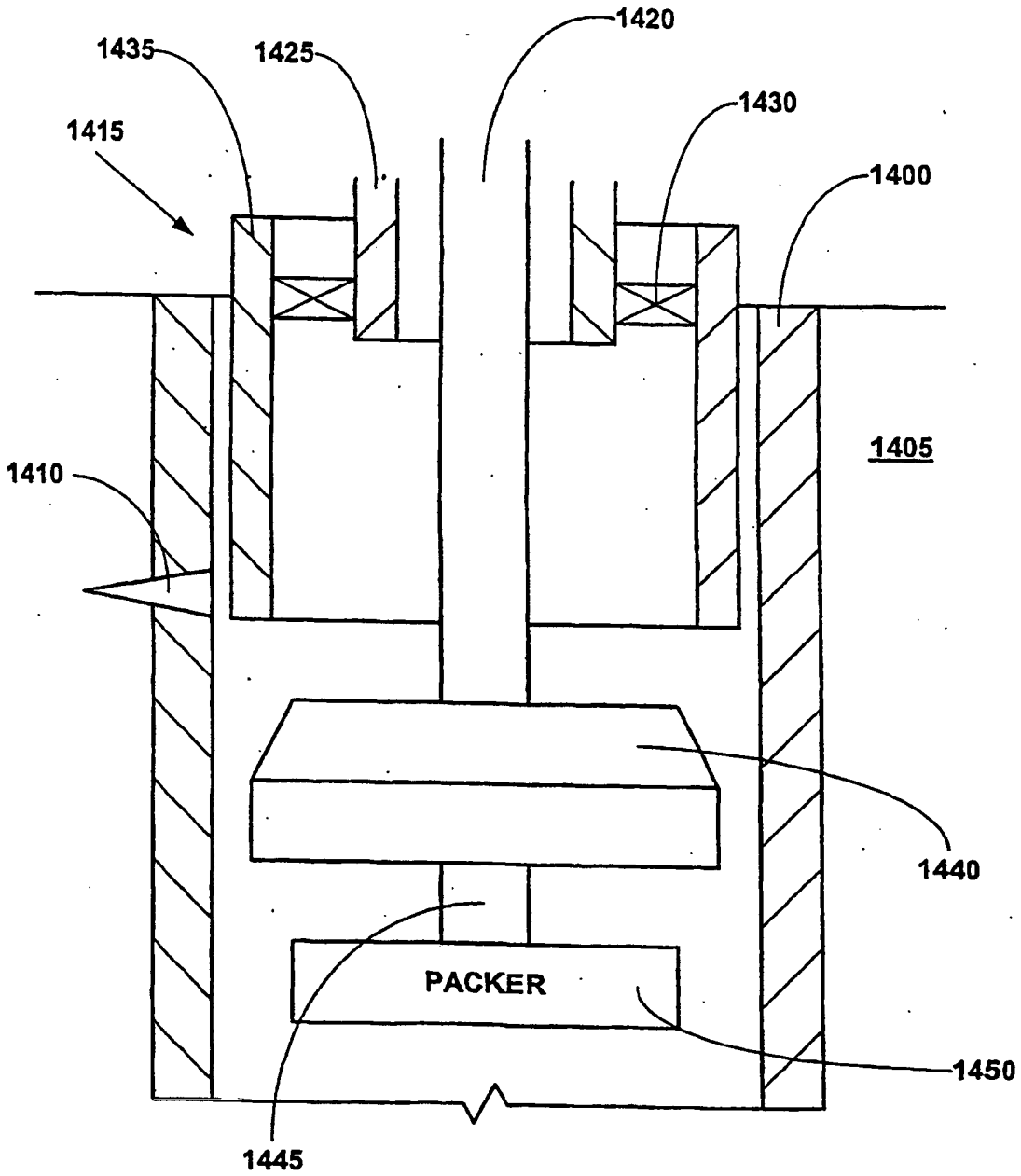
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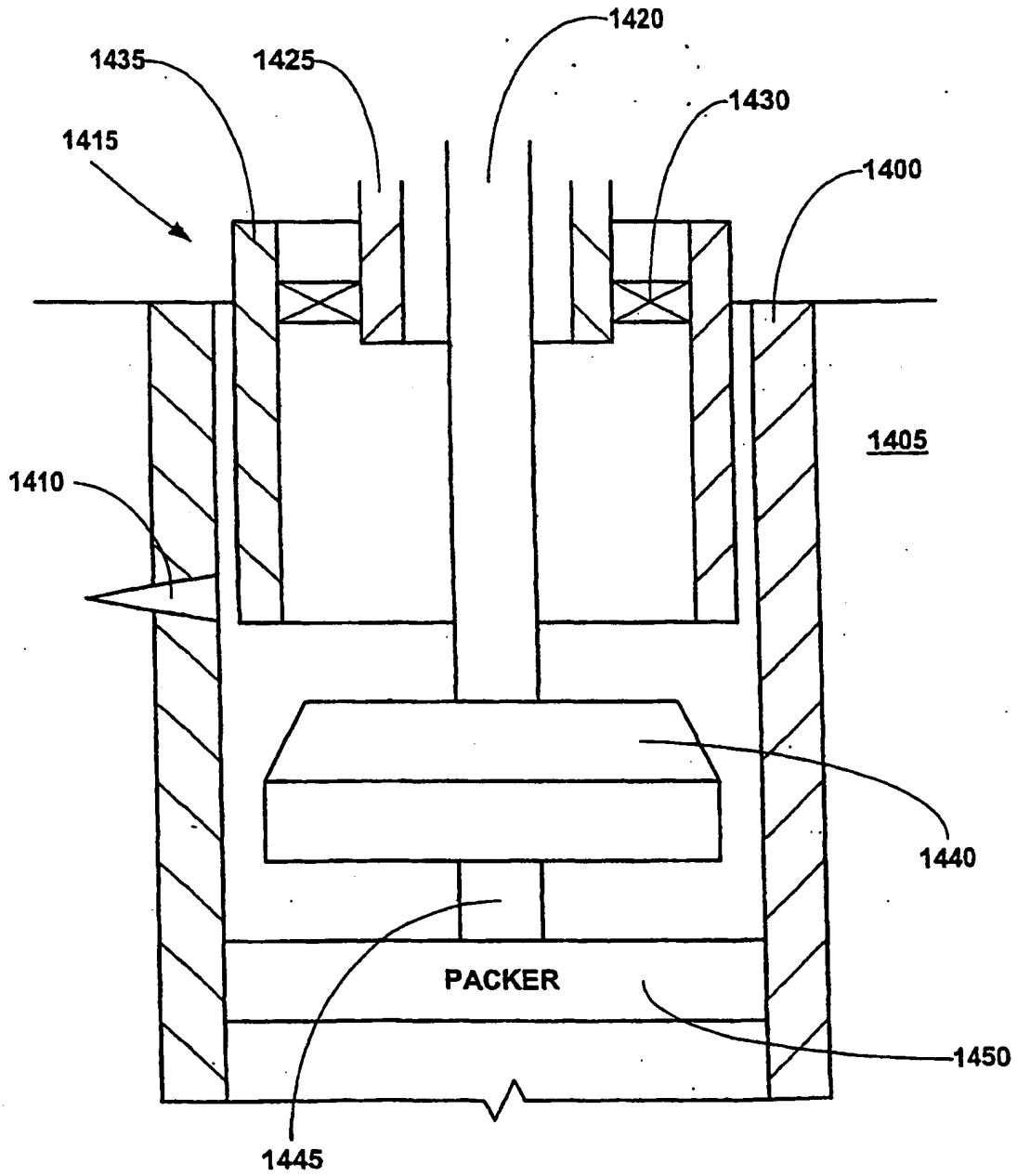
FIGURE 14a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PACKER
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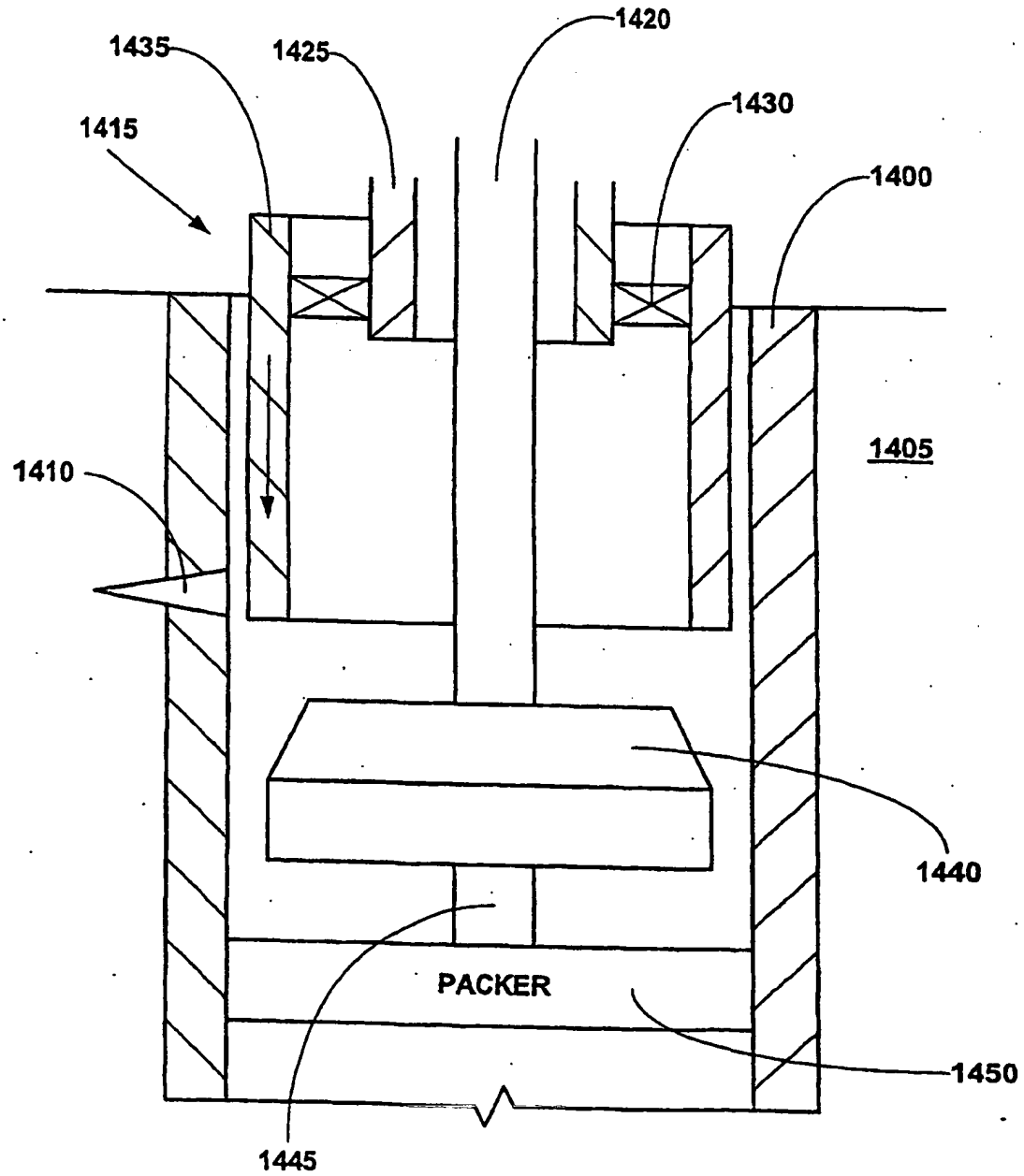
1445

FIGURE 14b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1440
PACKER
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FIGURE 14c

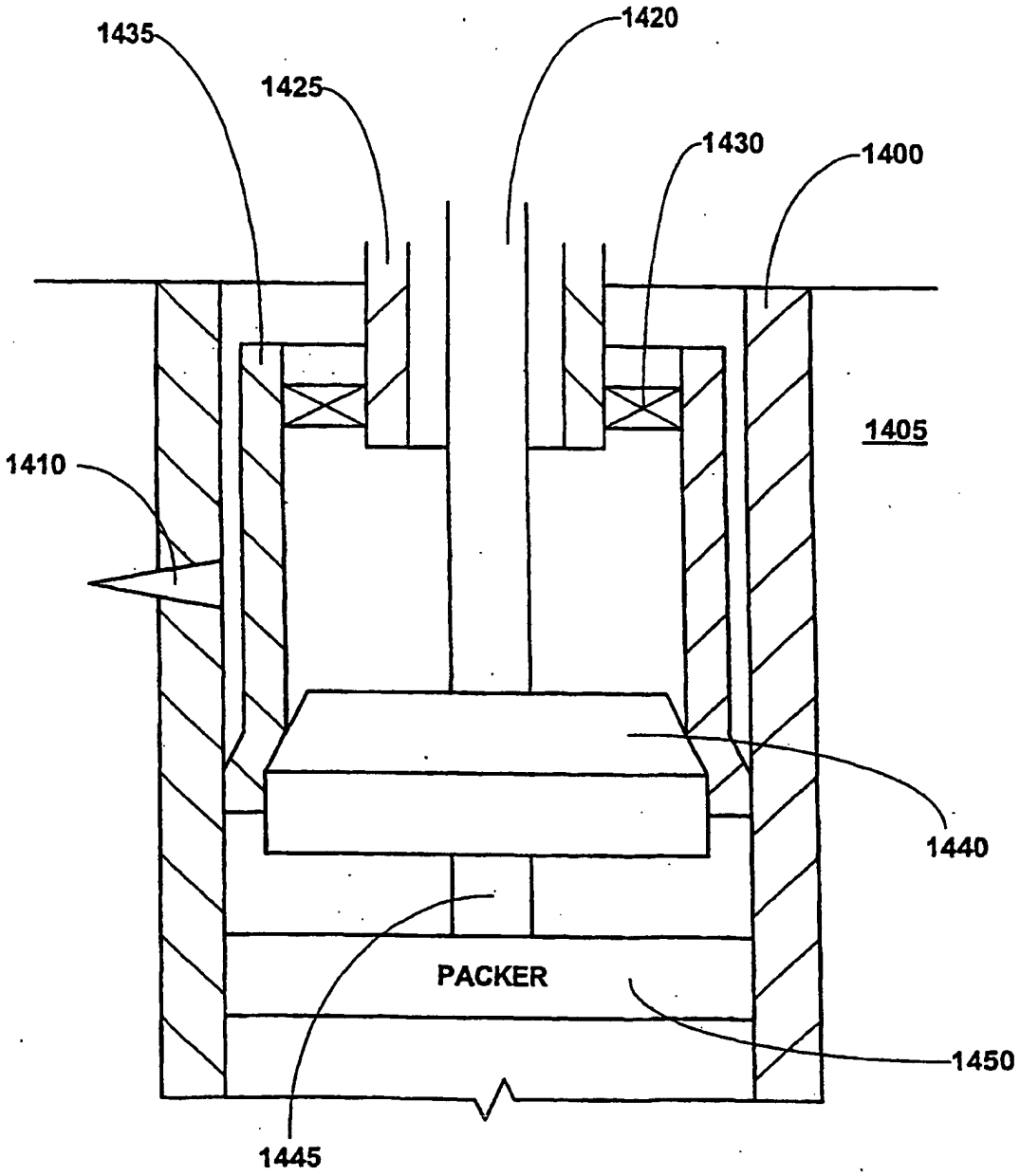


FIGURE 14d

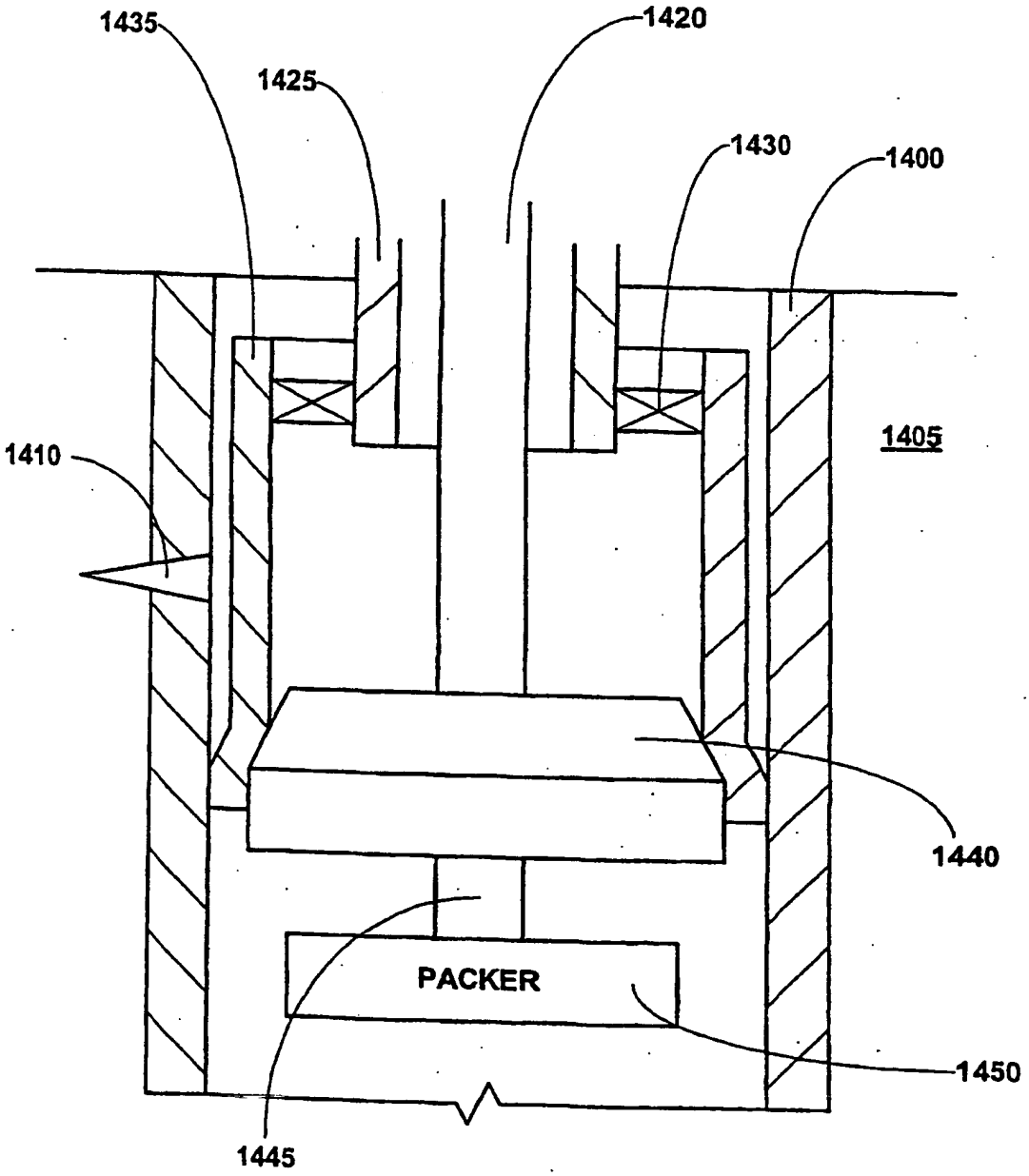


FIGURE 14e

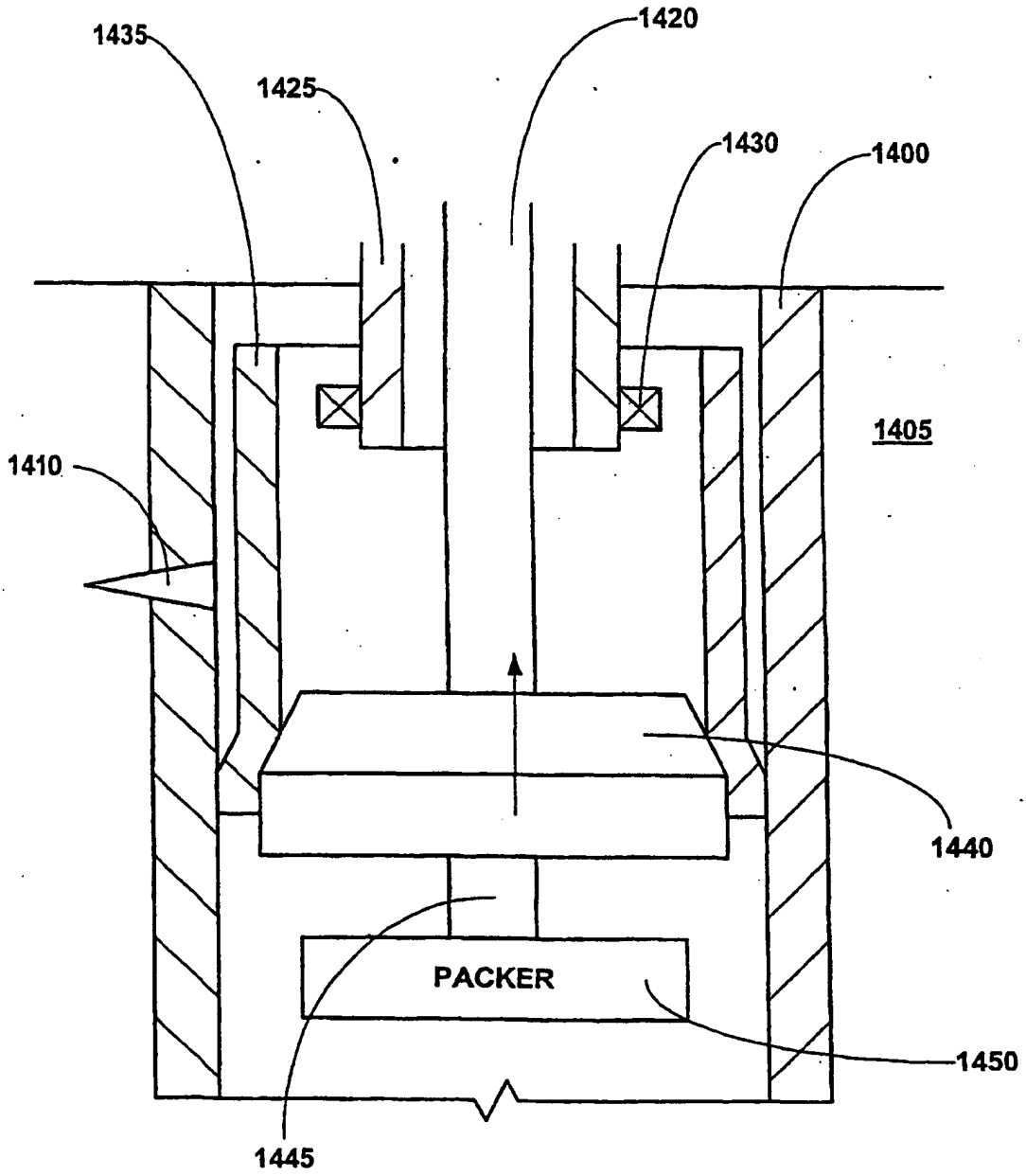


FIGURE 14f

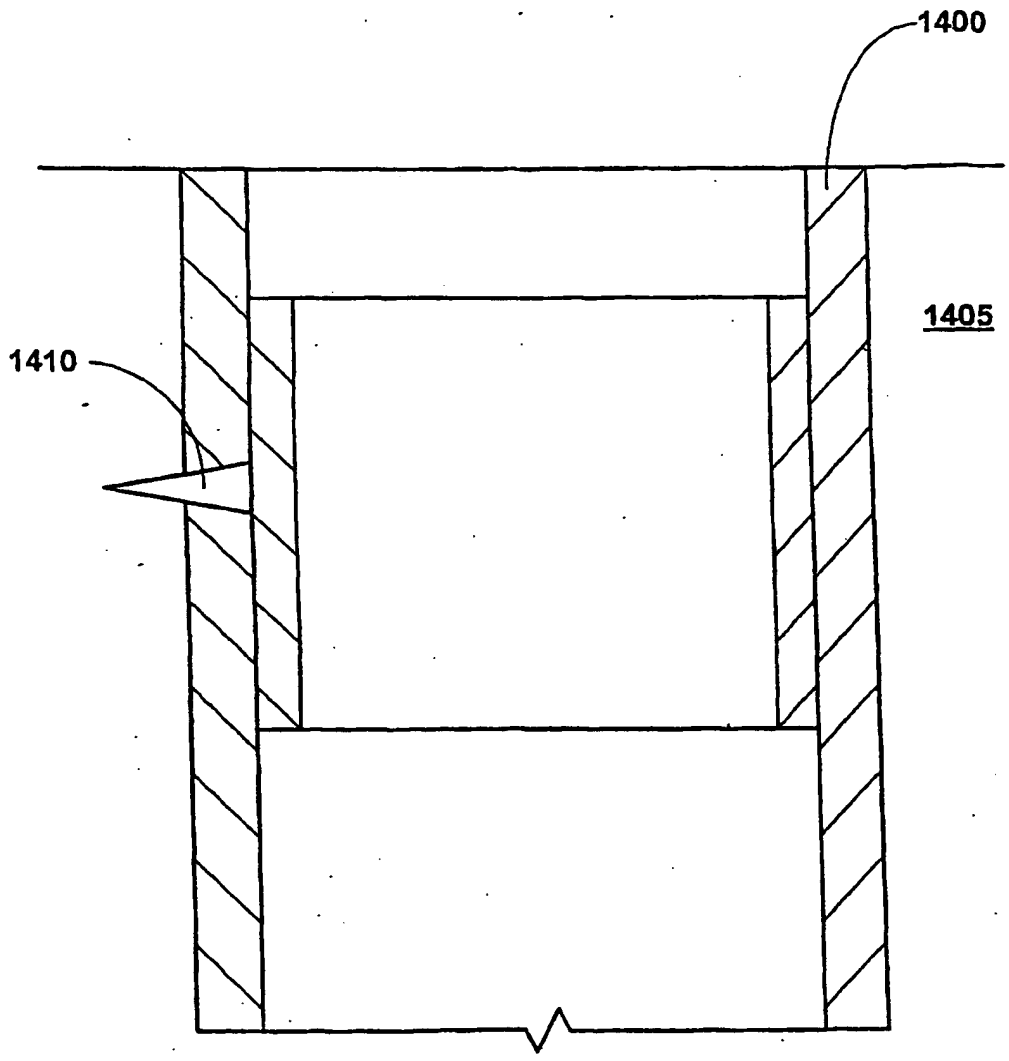
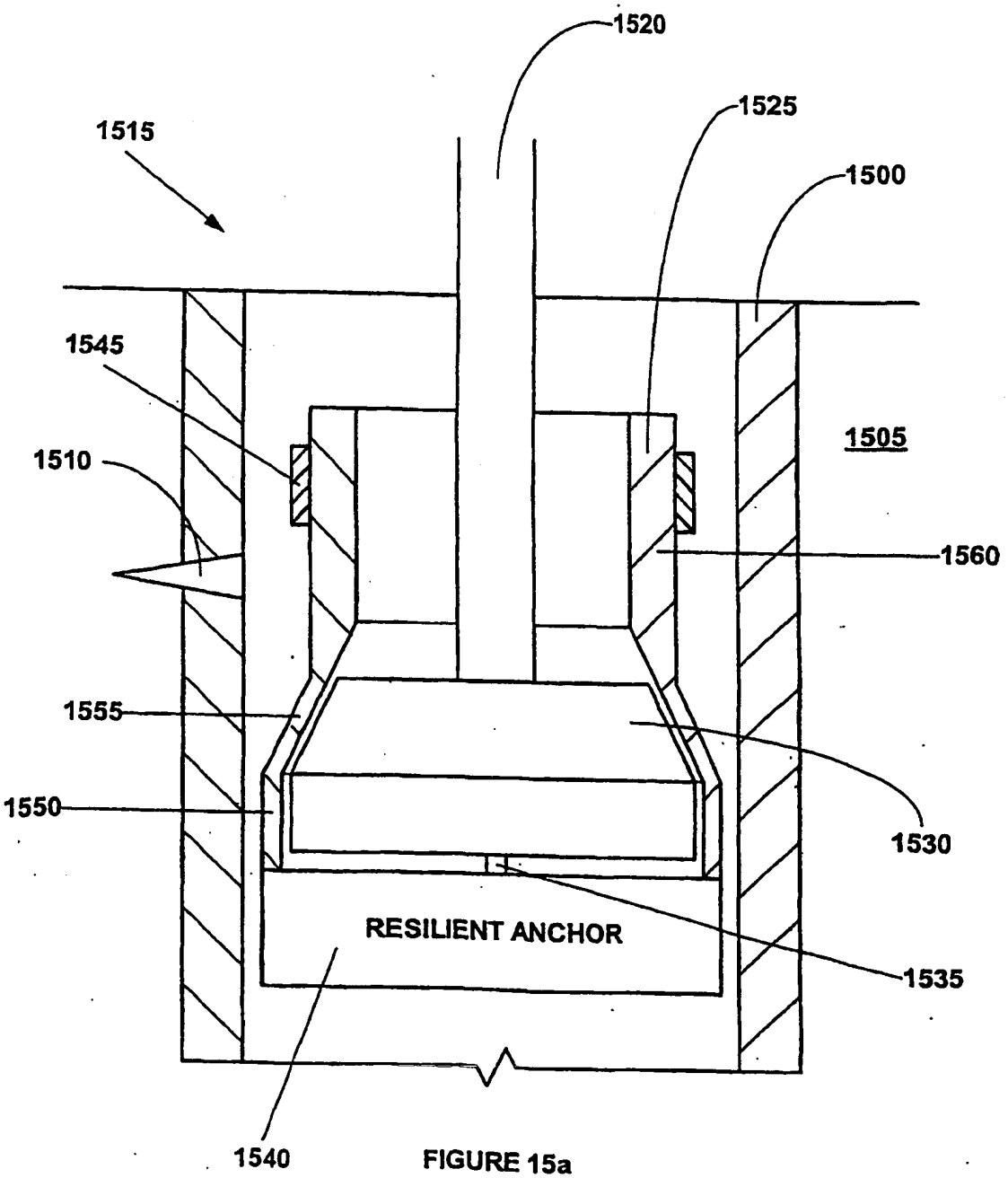


FIGURE 14g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RESILIENT ANCHOR
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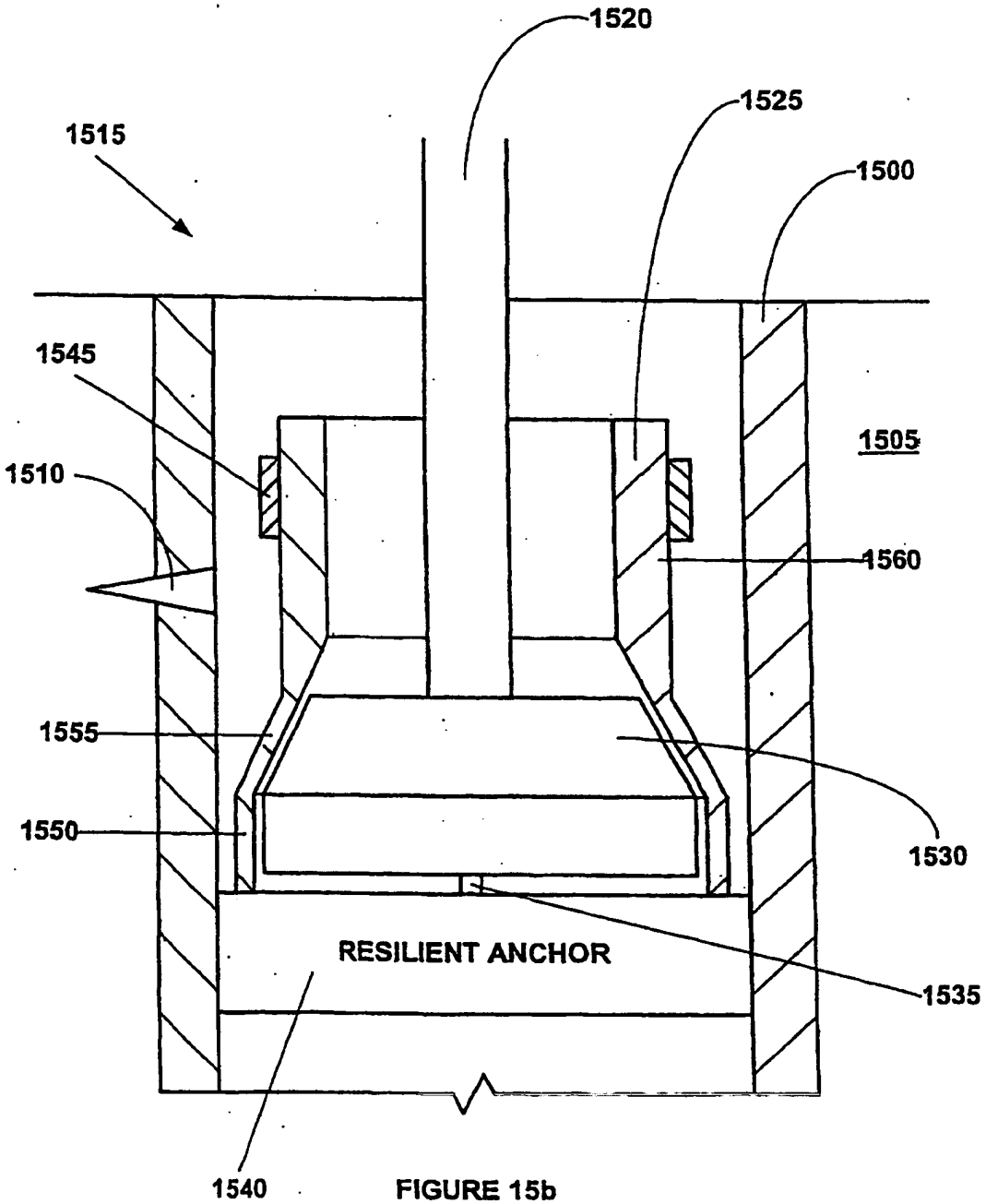
1540

FIGURE 15a


1520
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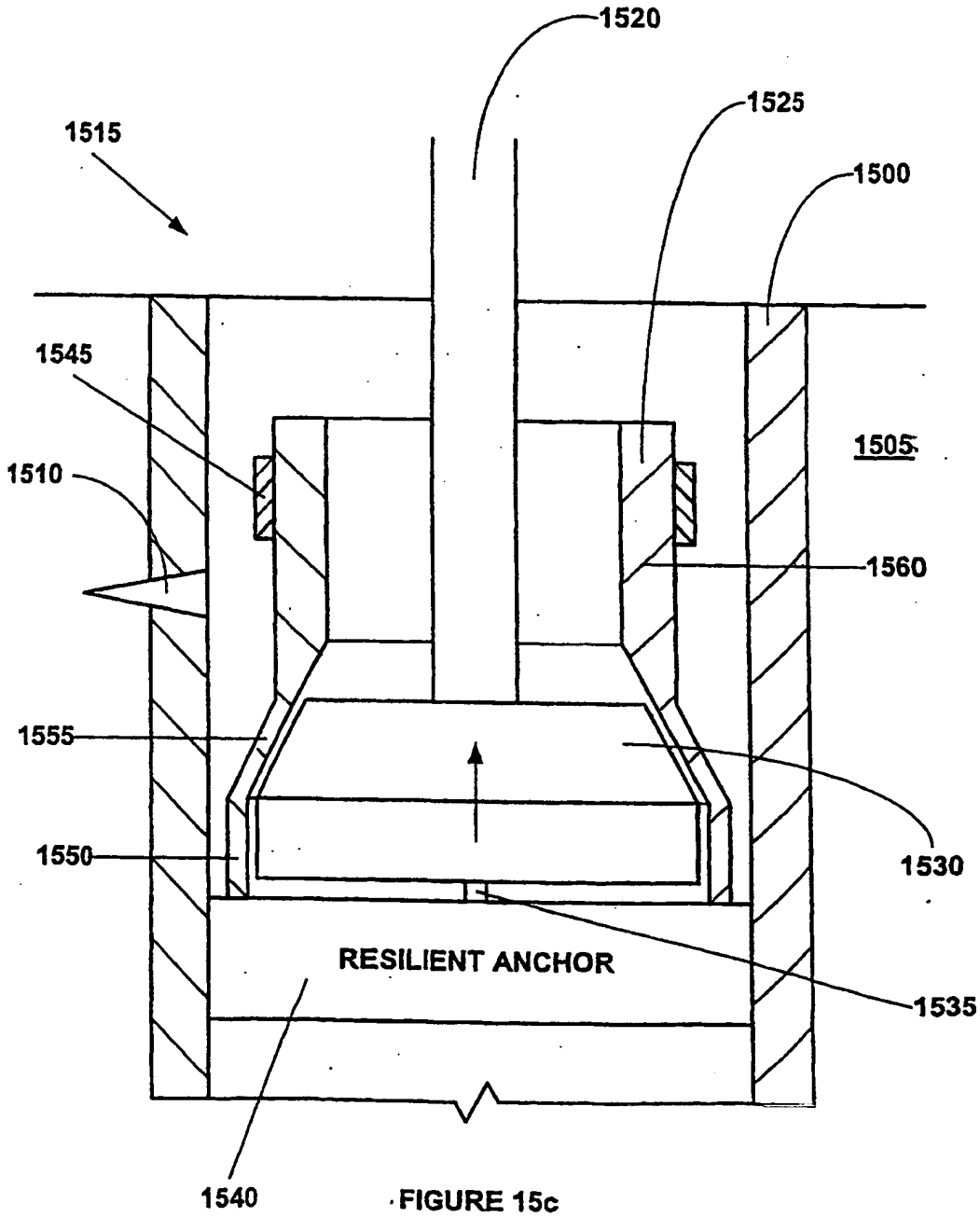
1515
1500
1545
1505
1510
1560
1555
1530
1550
RESILIENT ANCHOR
1535
1540

FIGURE 15b


1520
1525
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1500
1545
1505
1510
1560
1555
1530
1550
RESILIENT ANCHOR
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1540

FIGURE 15c

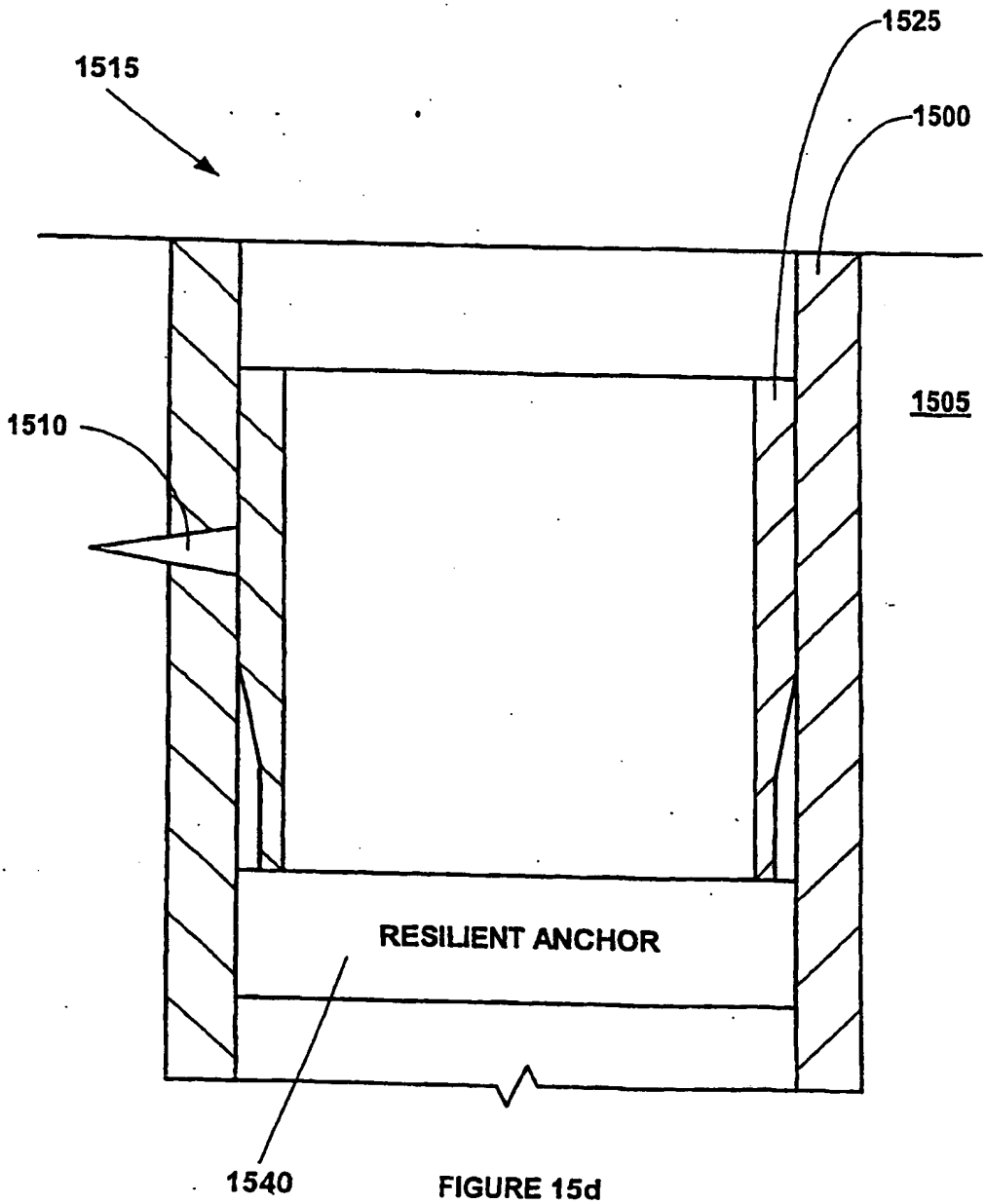

FIGURE 15d

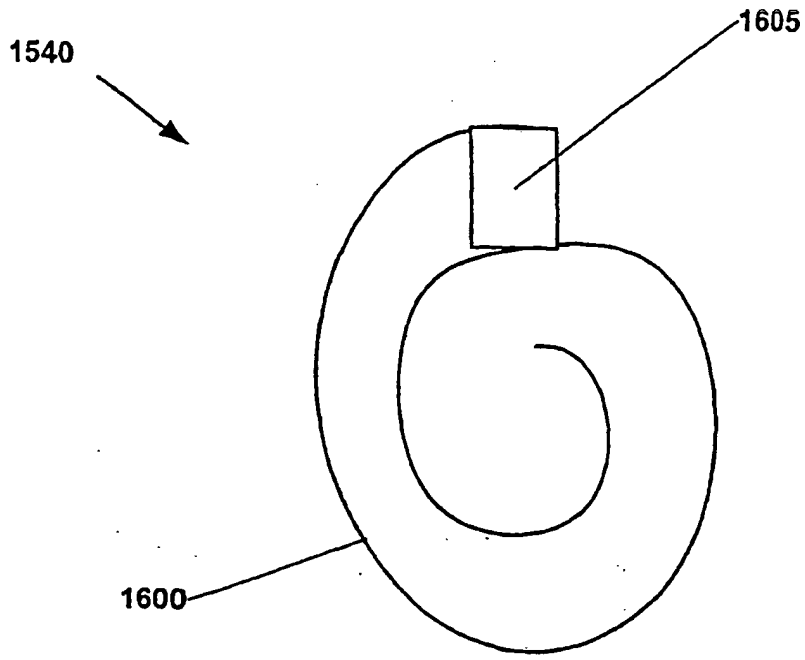

FIGURE 16a

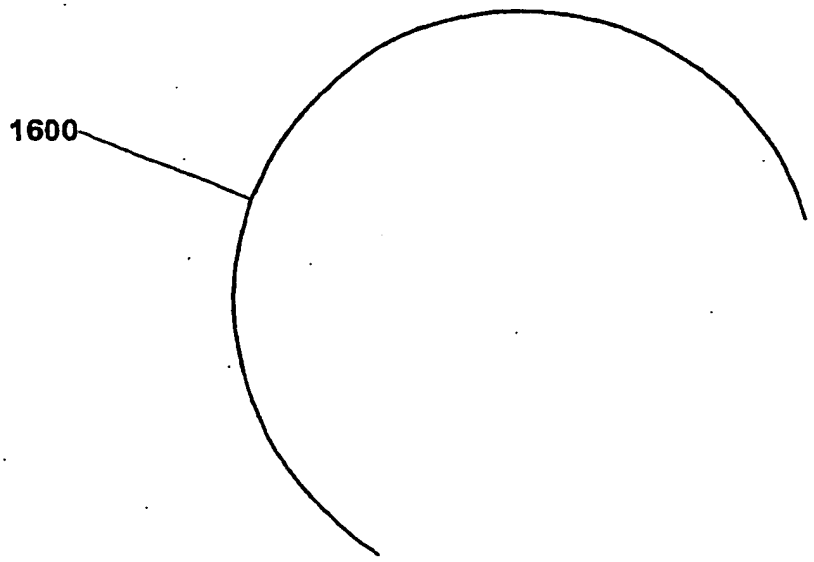

FIGURE 16b

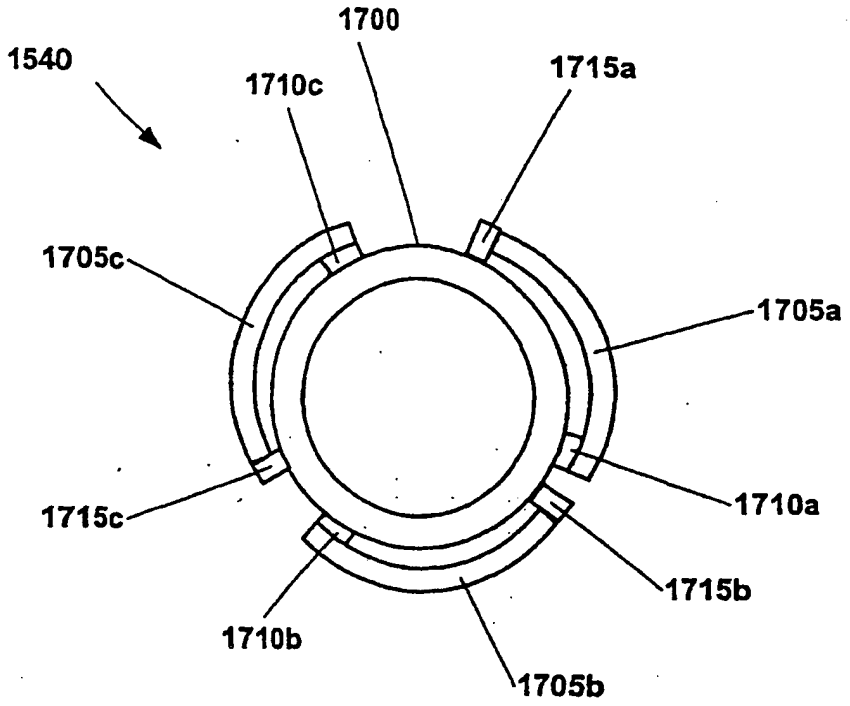

FIGURE 17a

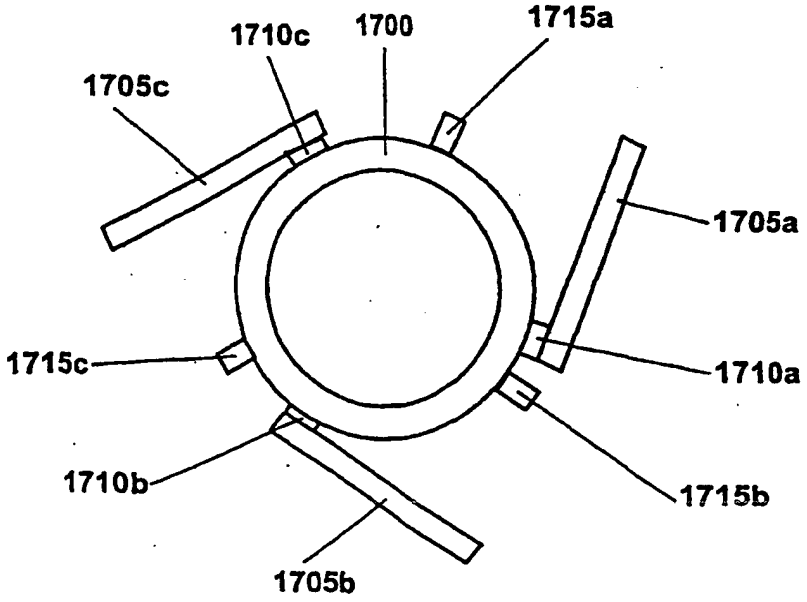

FIGURE 17b

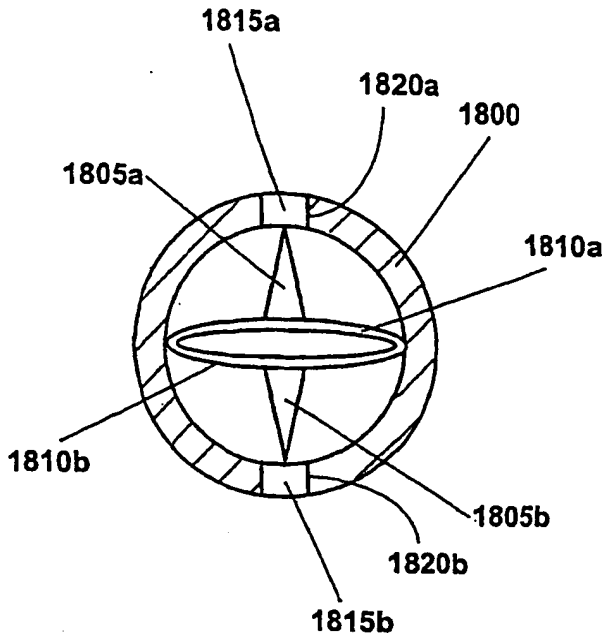

FIGURE 18a

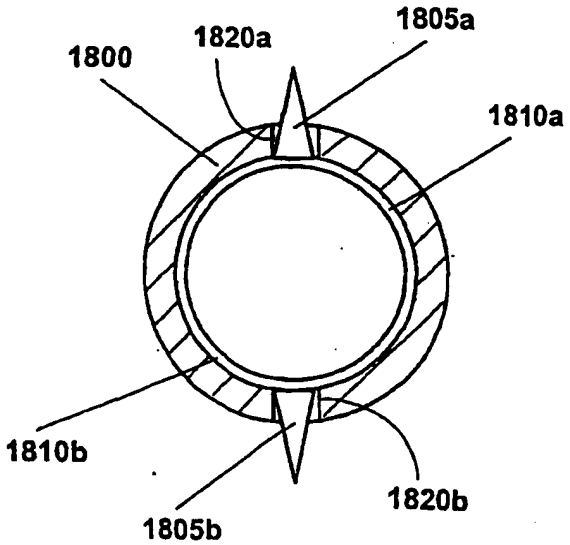

FIGURE 18b

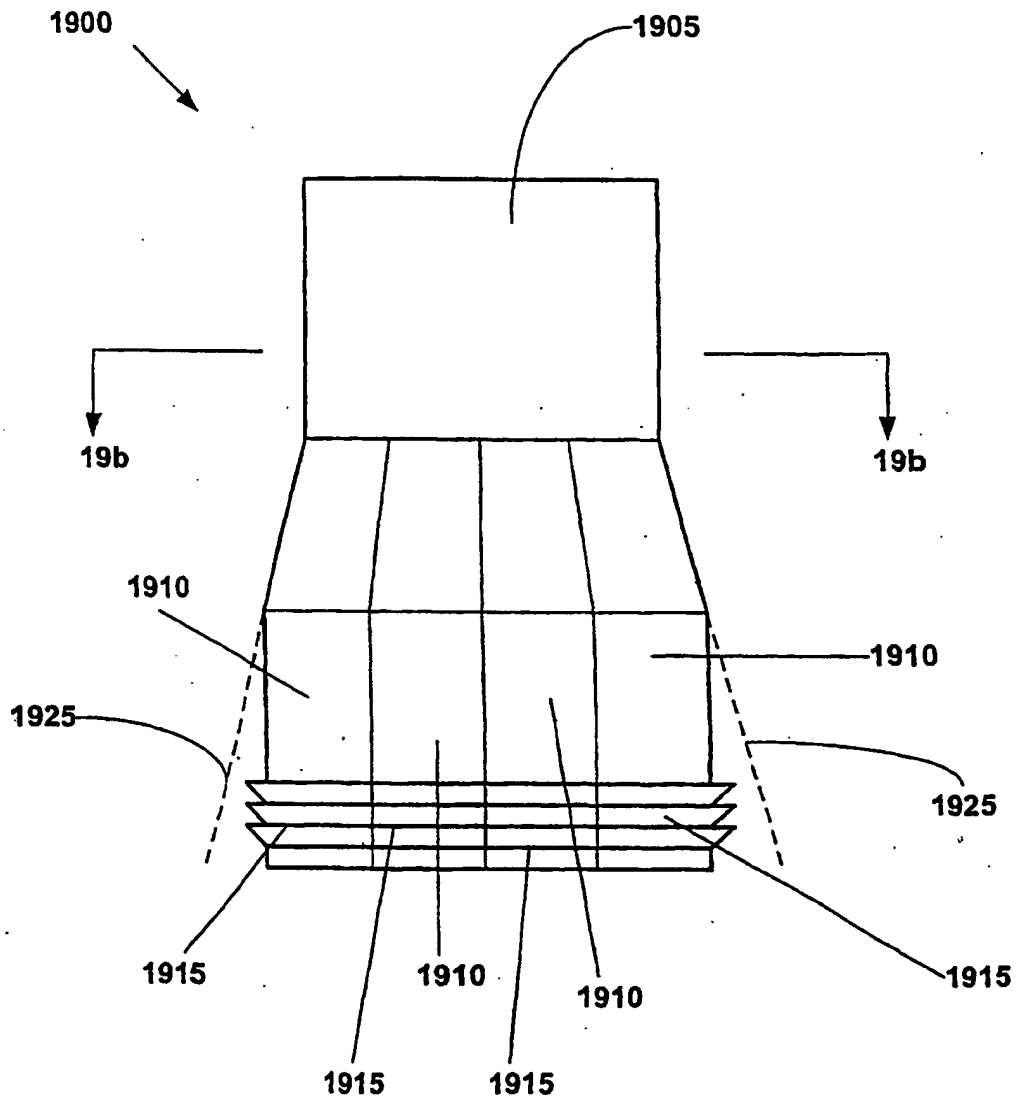
1900
1905
19b
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FIGURE 19a

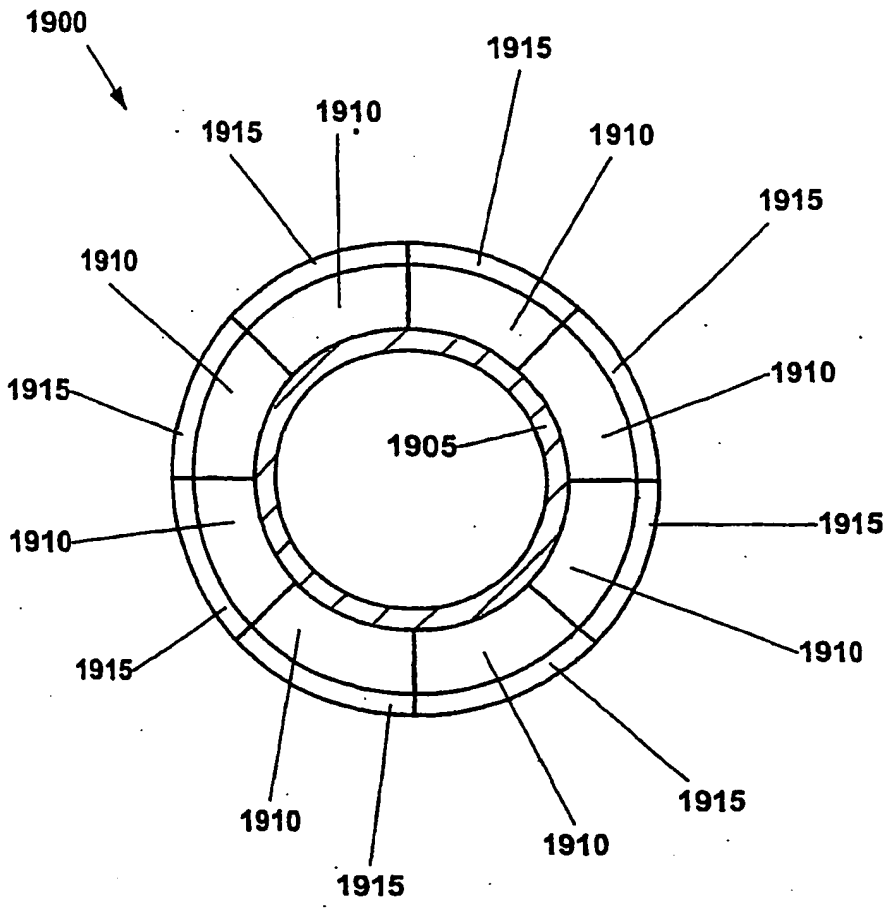
1900
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FIGURE 19b

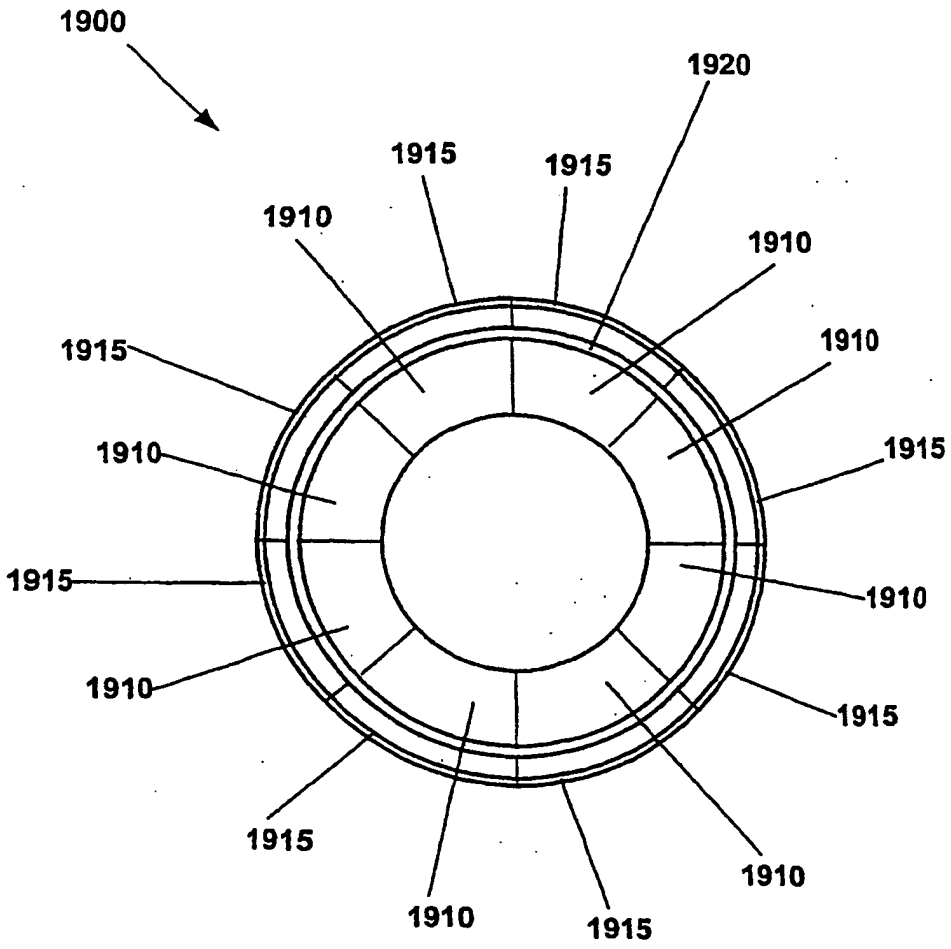
1900
1920
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FIGURE 19c

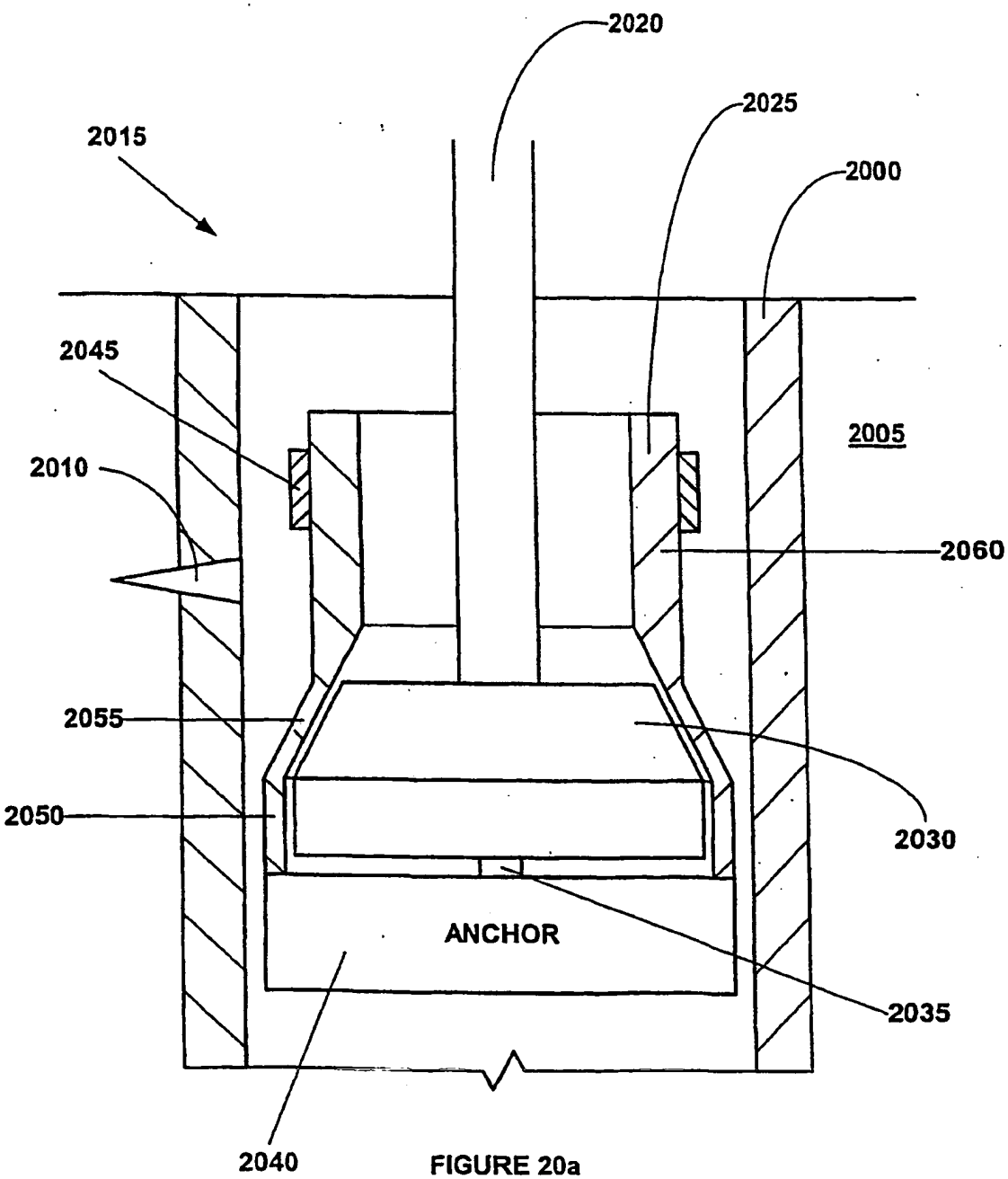
2020
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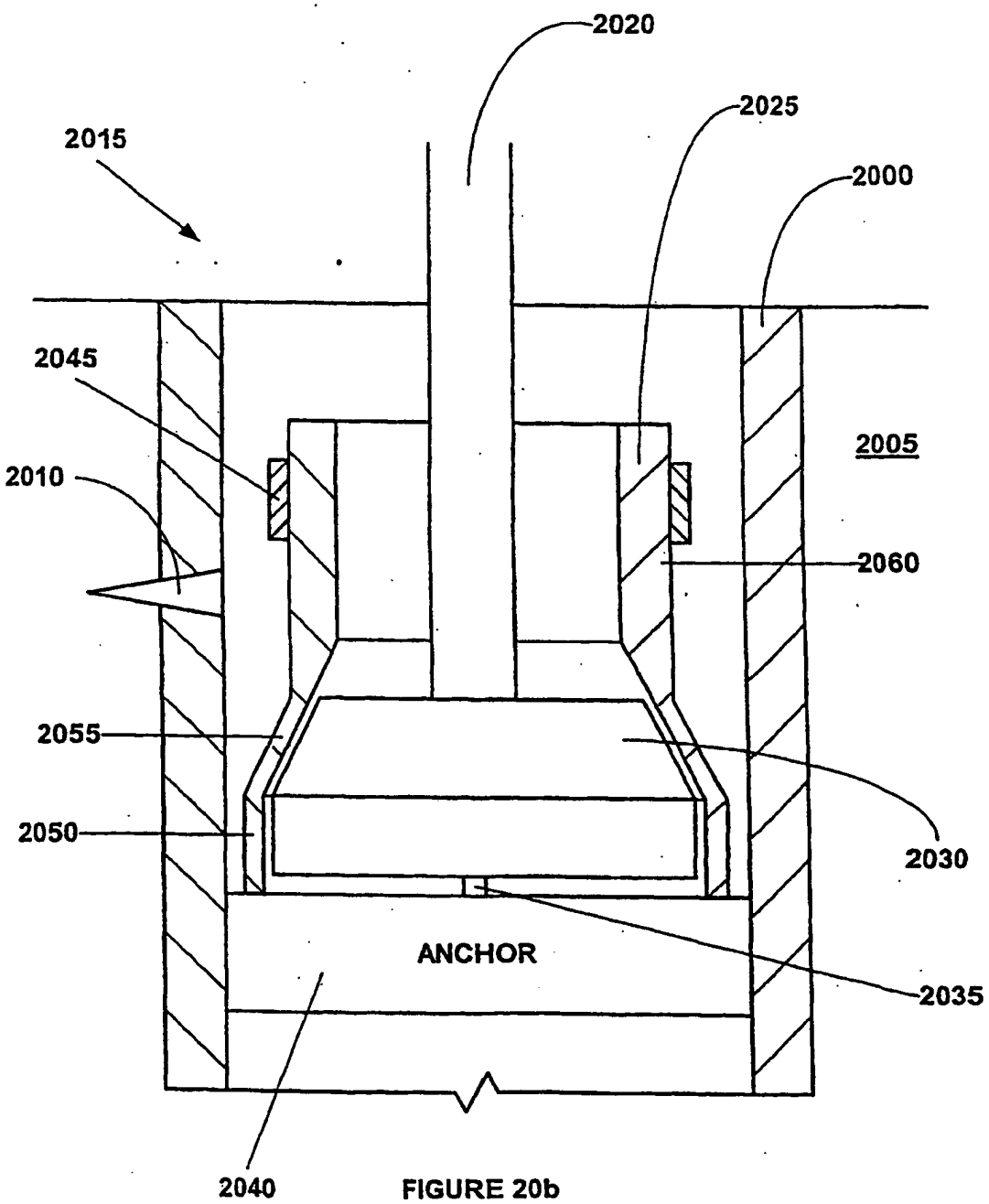
FIGURE 20a


2020
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ANCHOR
2035
2040

FIGURE 20b

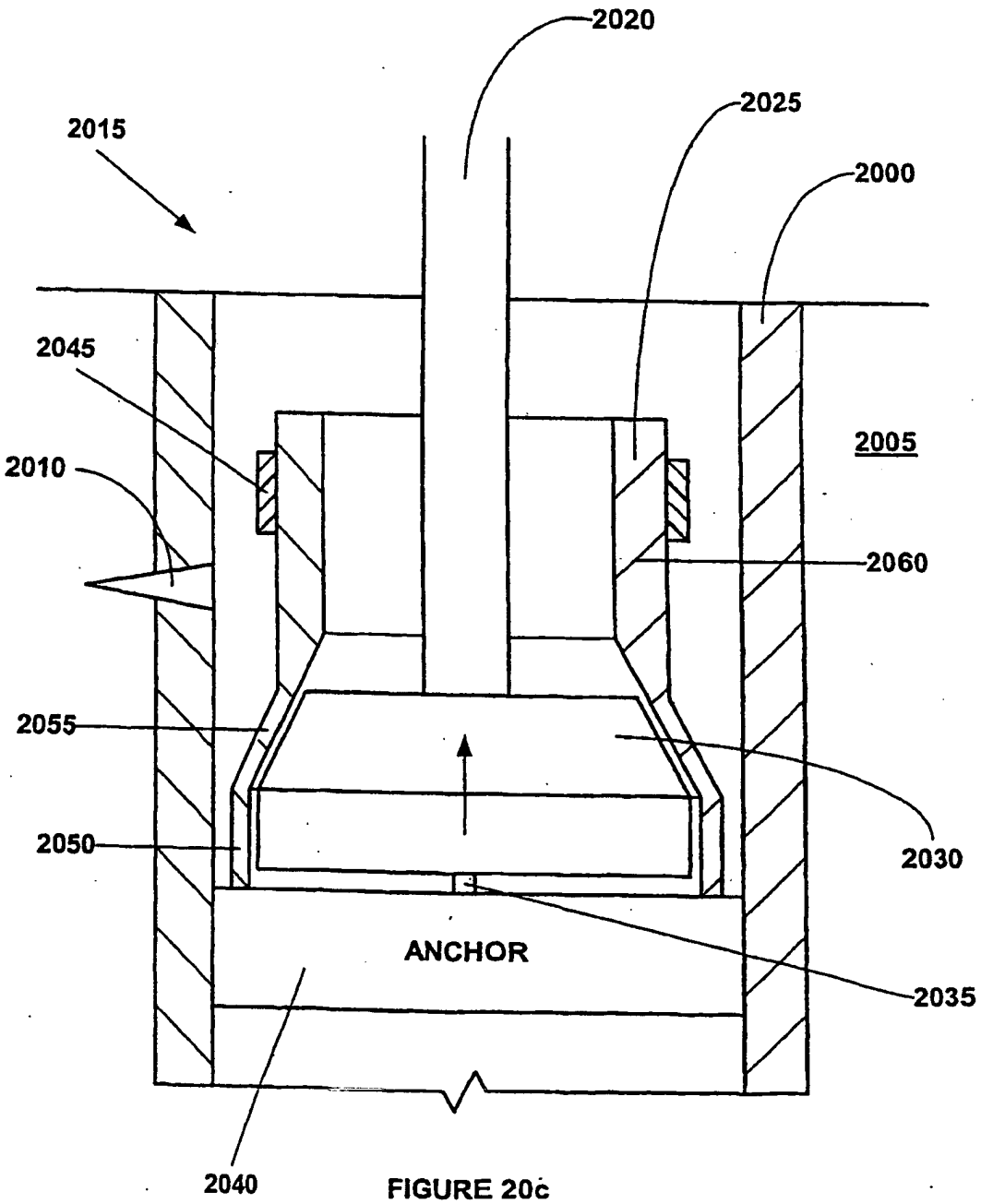
2020
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FIGURE 20c

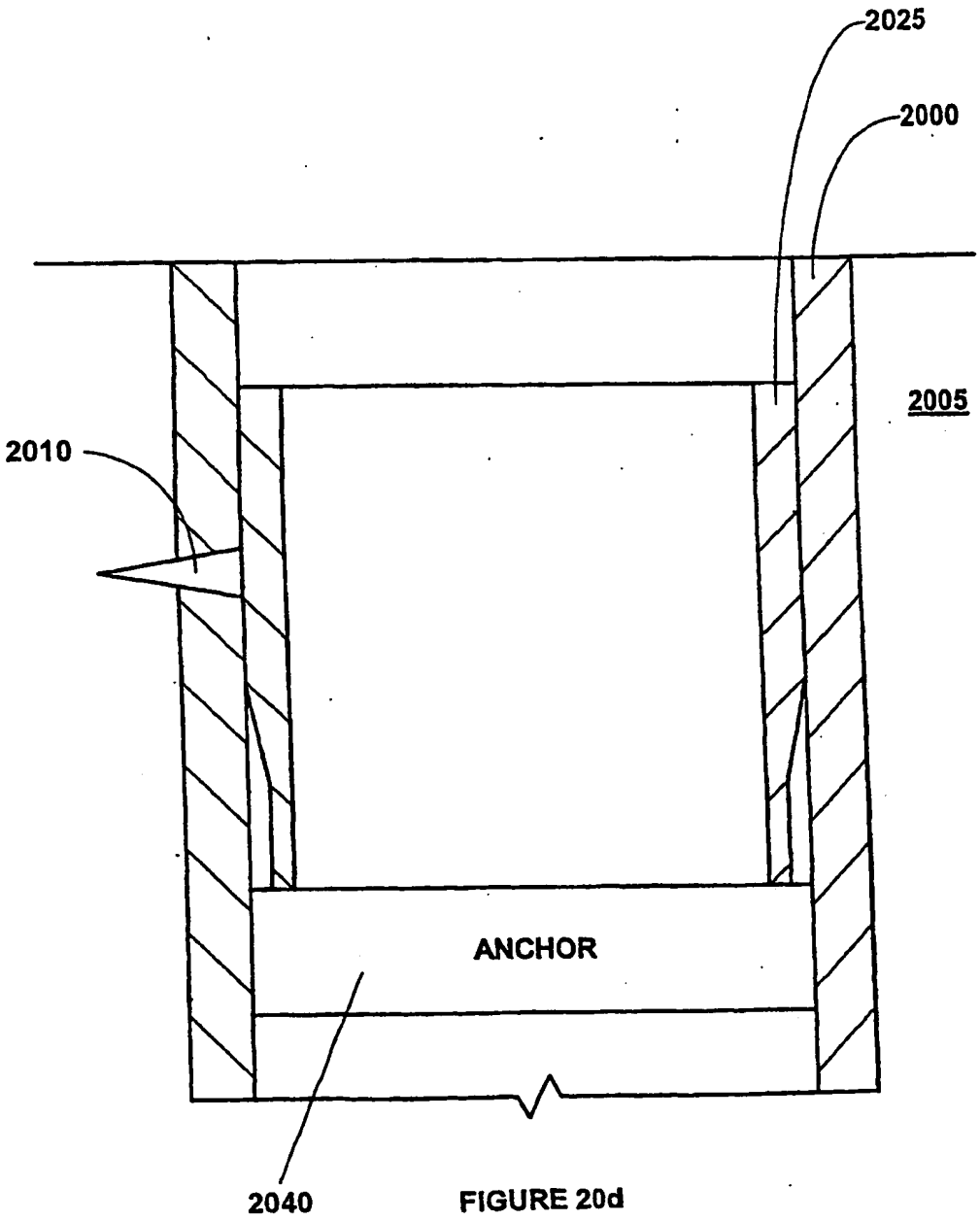

FIGURE 20d

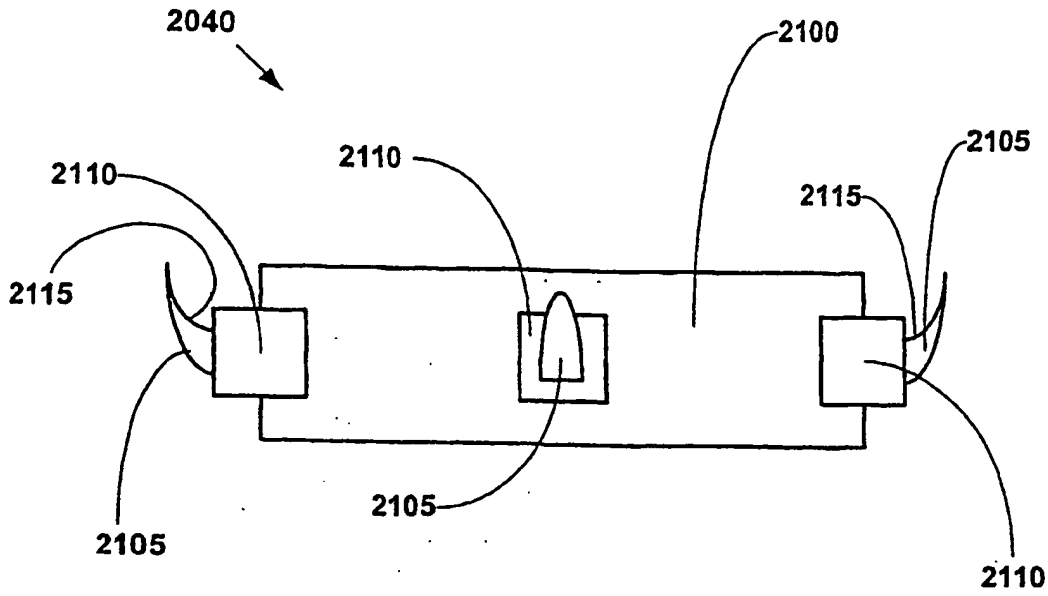

FIGURE 21a

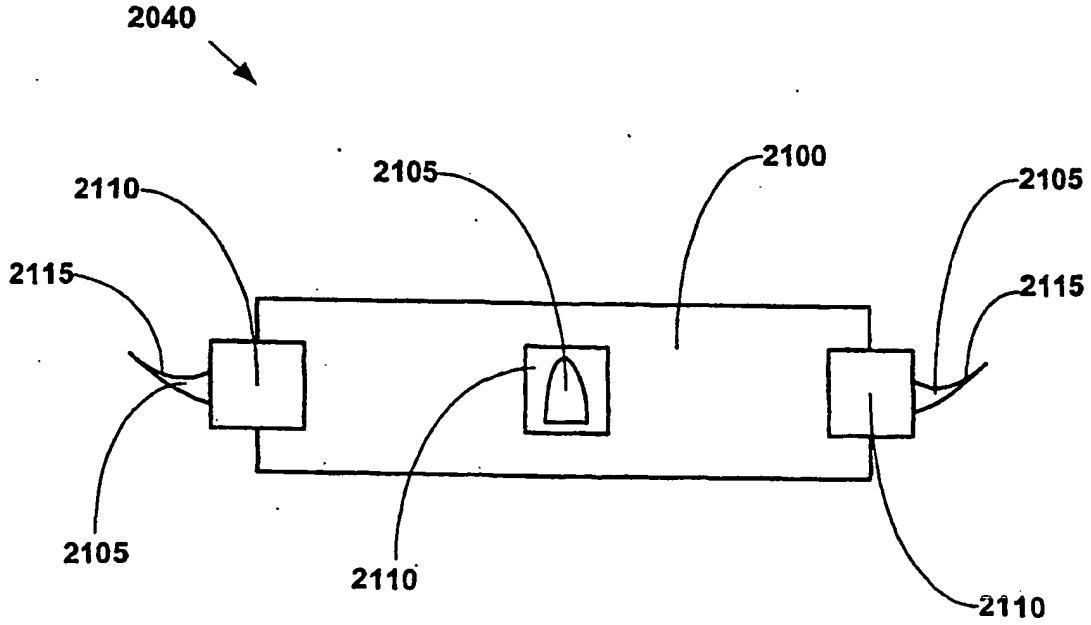

FIGURE 21b

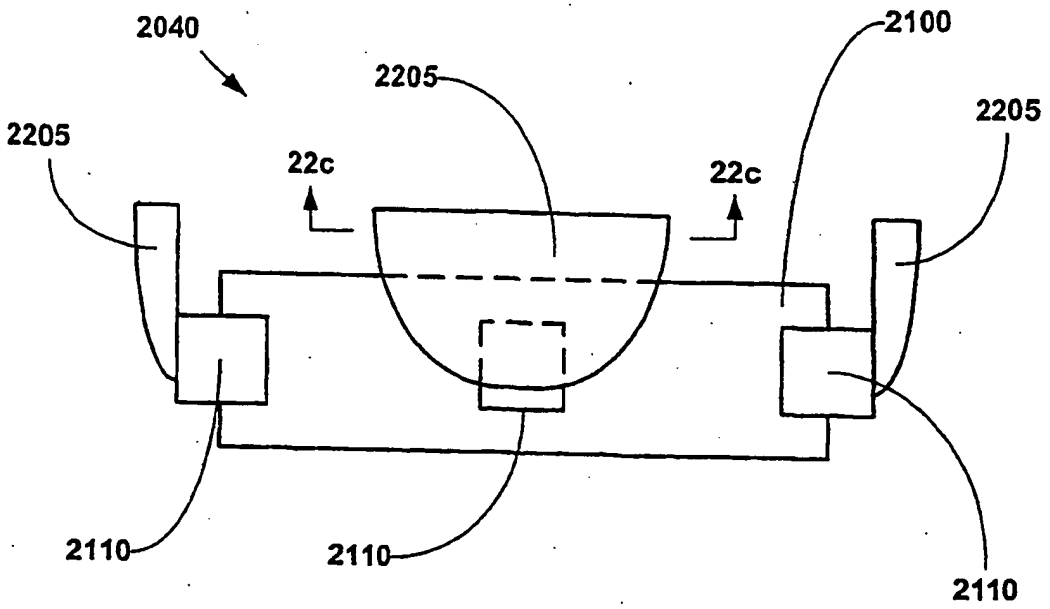

FIGURE 22a

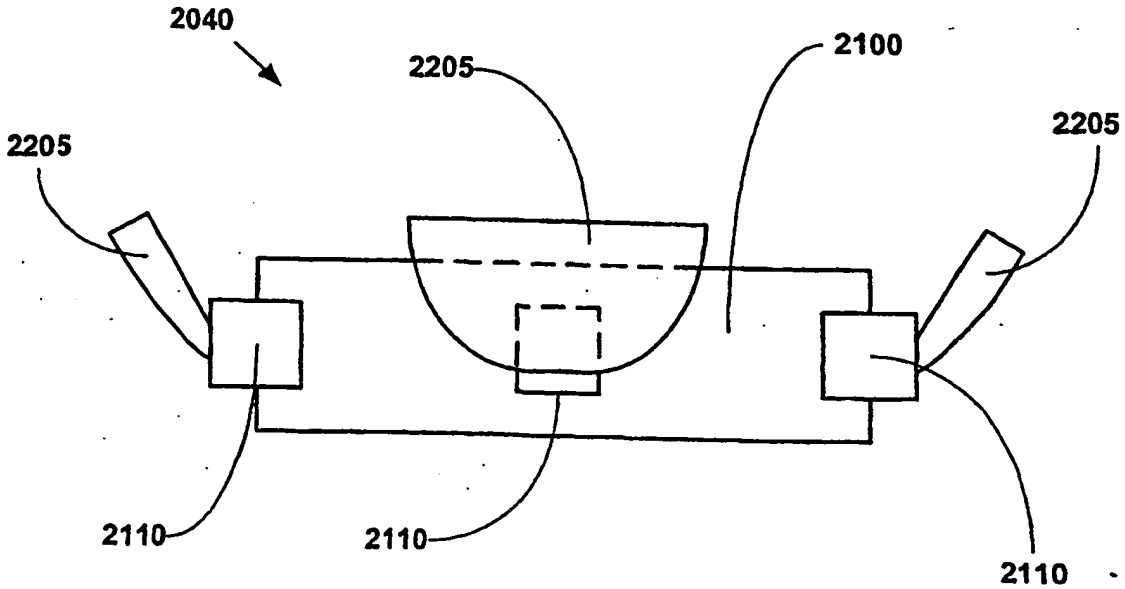

FIGURE 22b

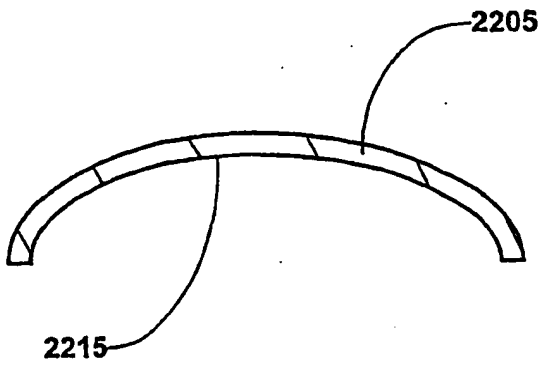

FIGURE 22c

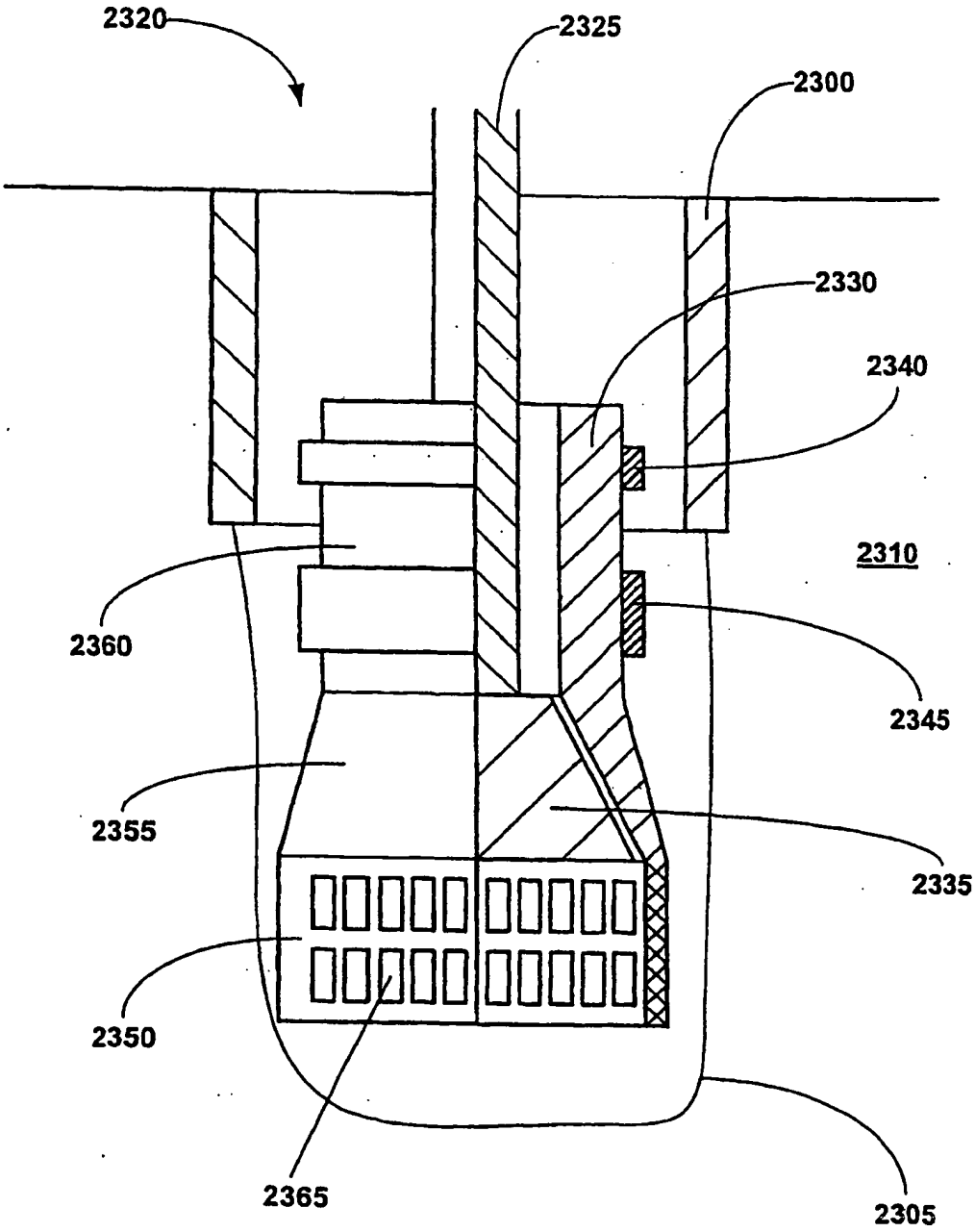
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FIGURE 23a

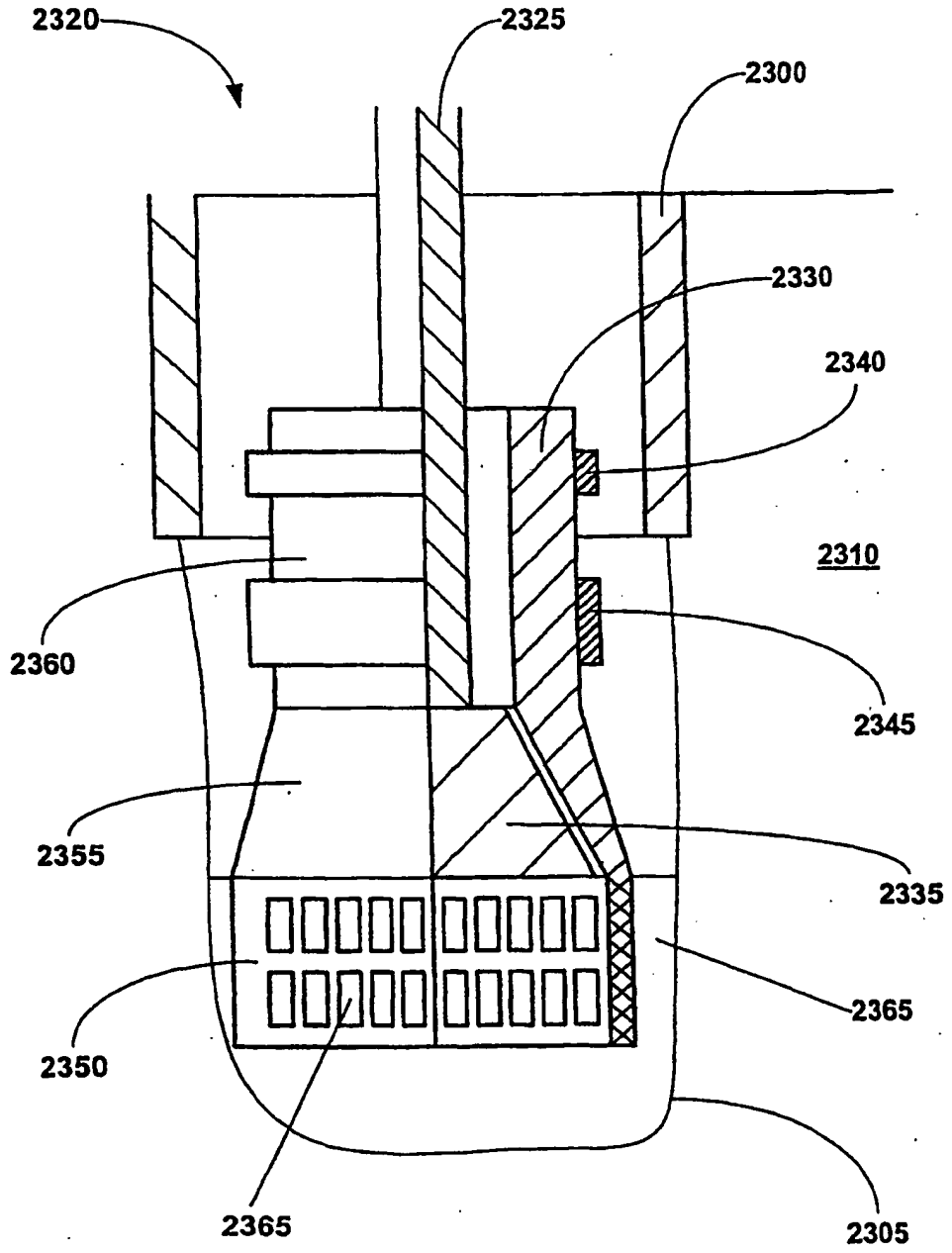
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FIGURE 23b

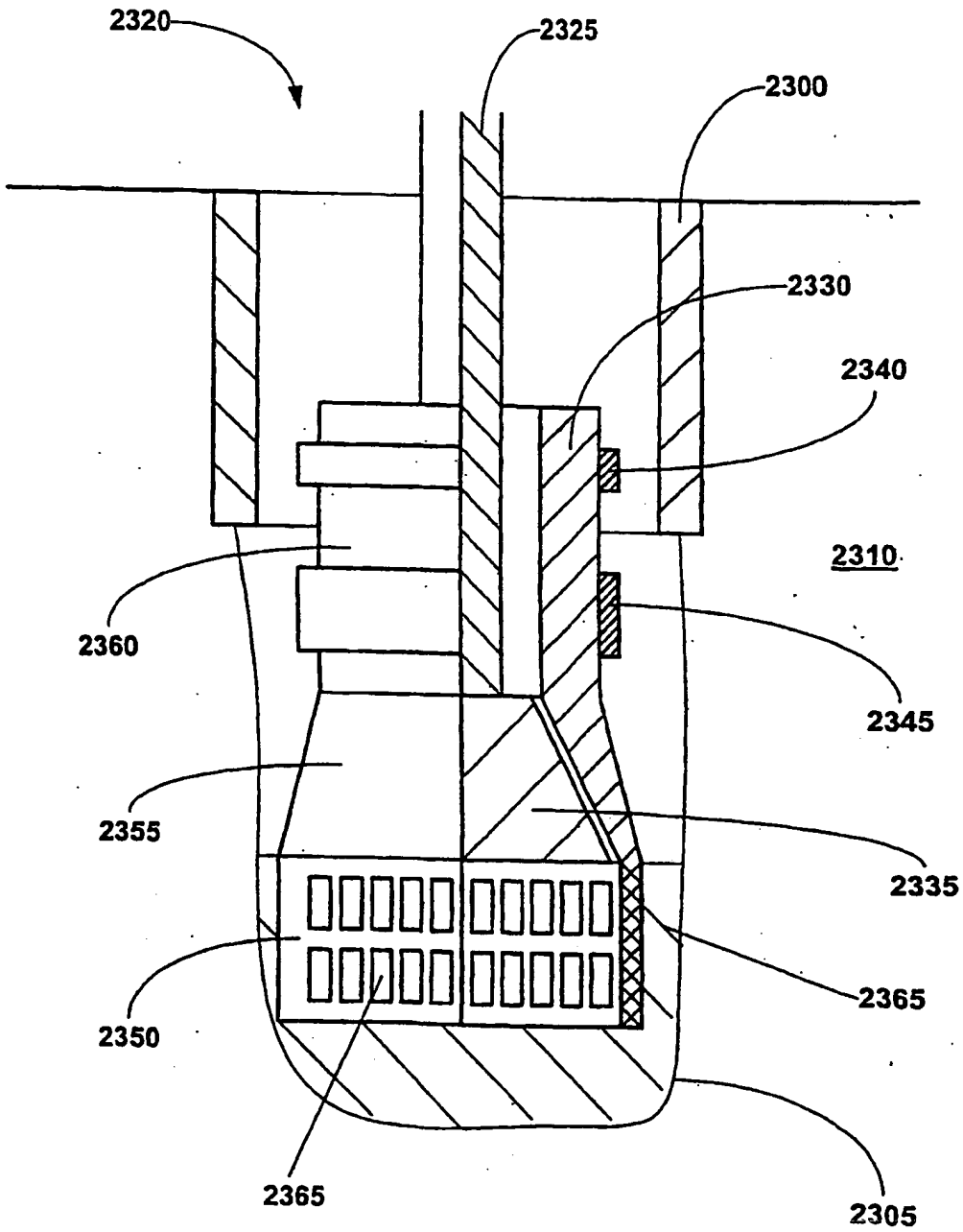
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FIGURE 23c

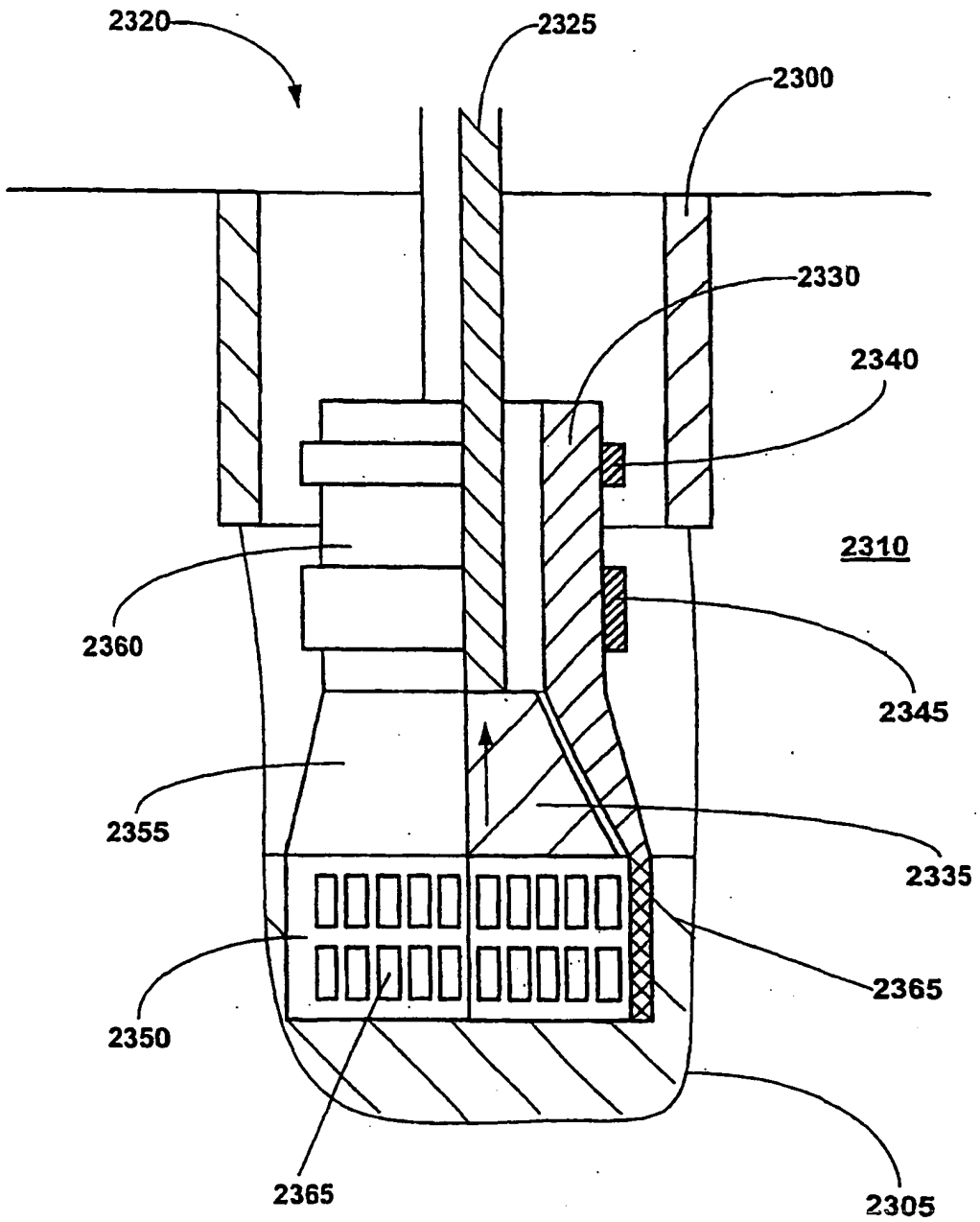
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FIGURE 23d

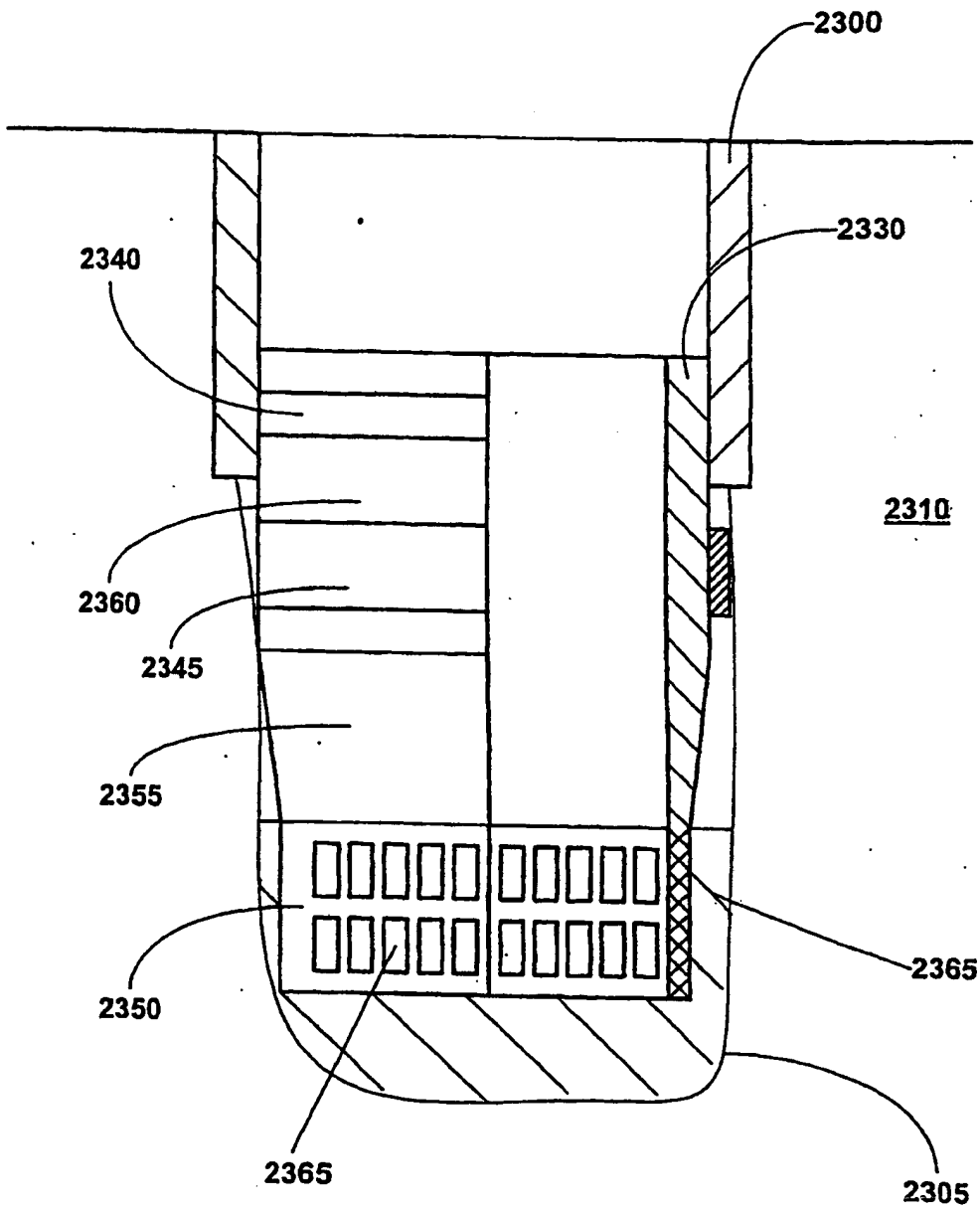
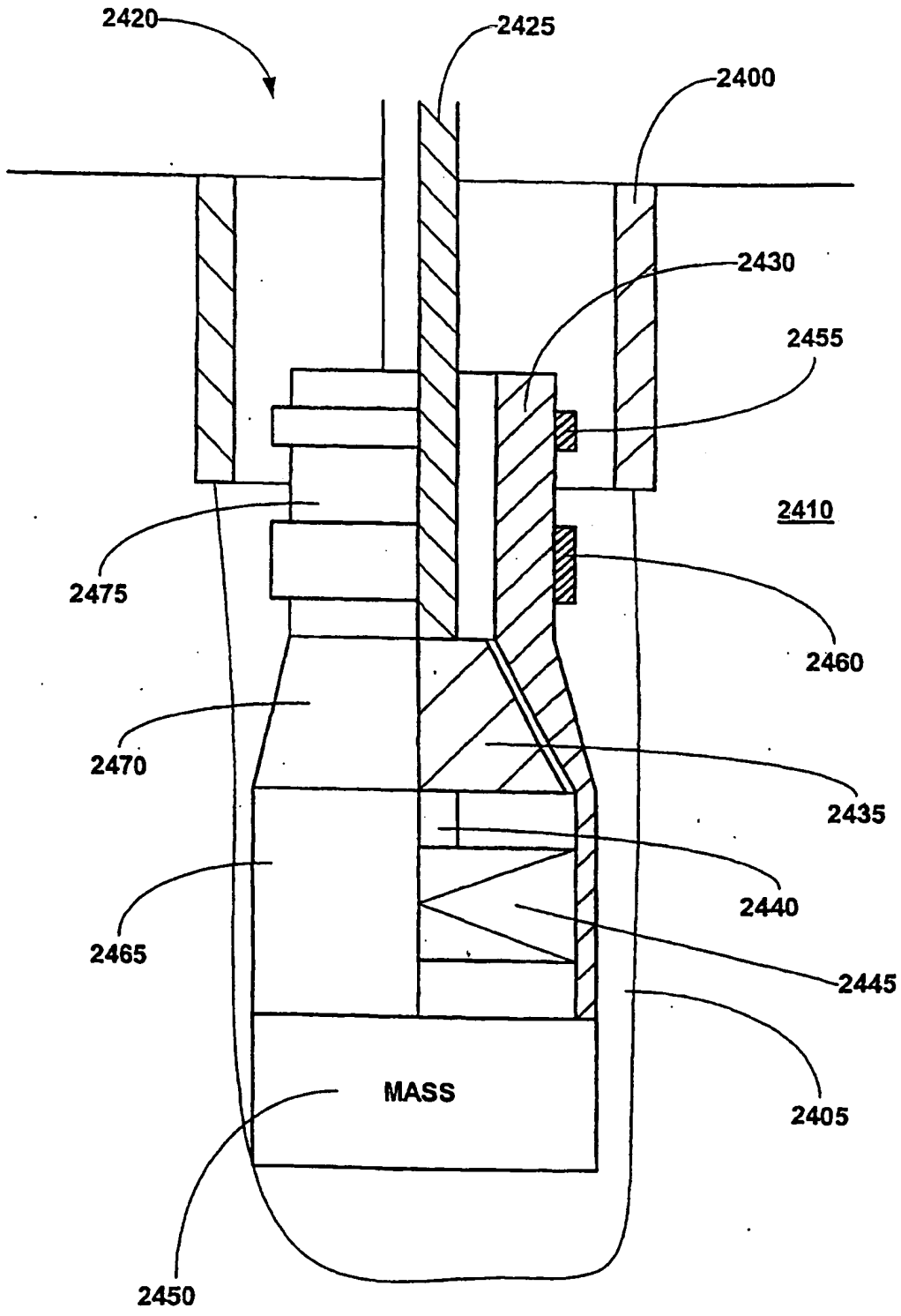


FIGURE 23e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MASS
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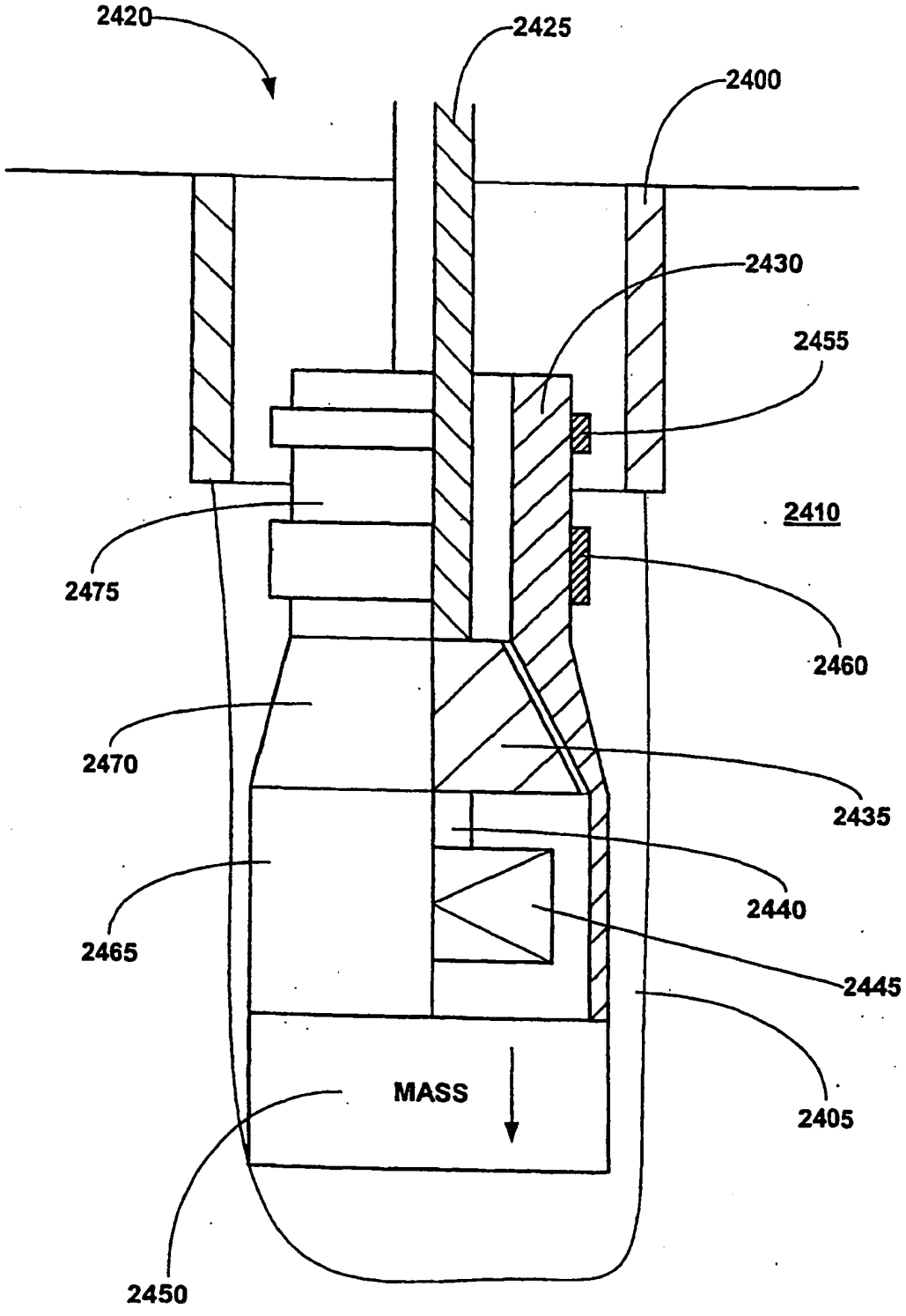
2450

FIGURE 24a


2420
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2455
2410
2475
2460
2470
2435
2440
2465
2445
MASS
2405
2450

FIGURE 24b

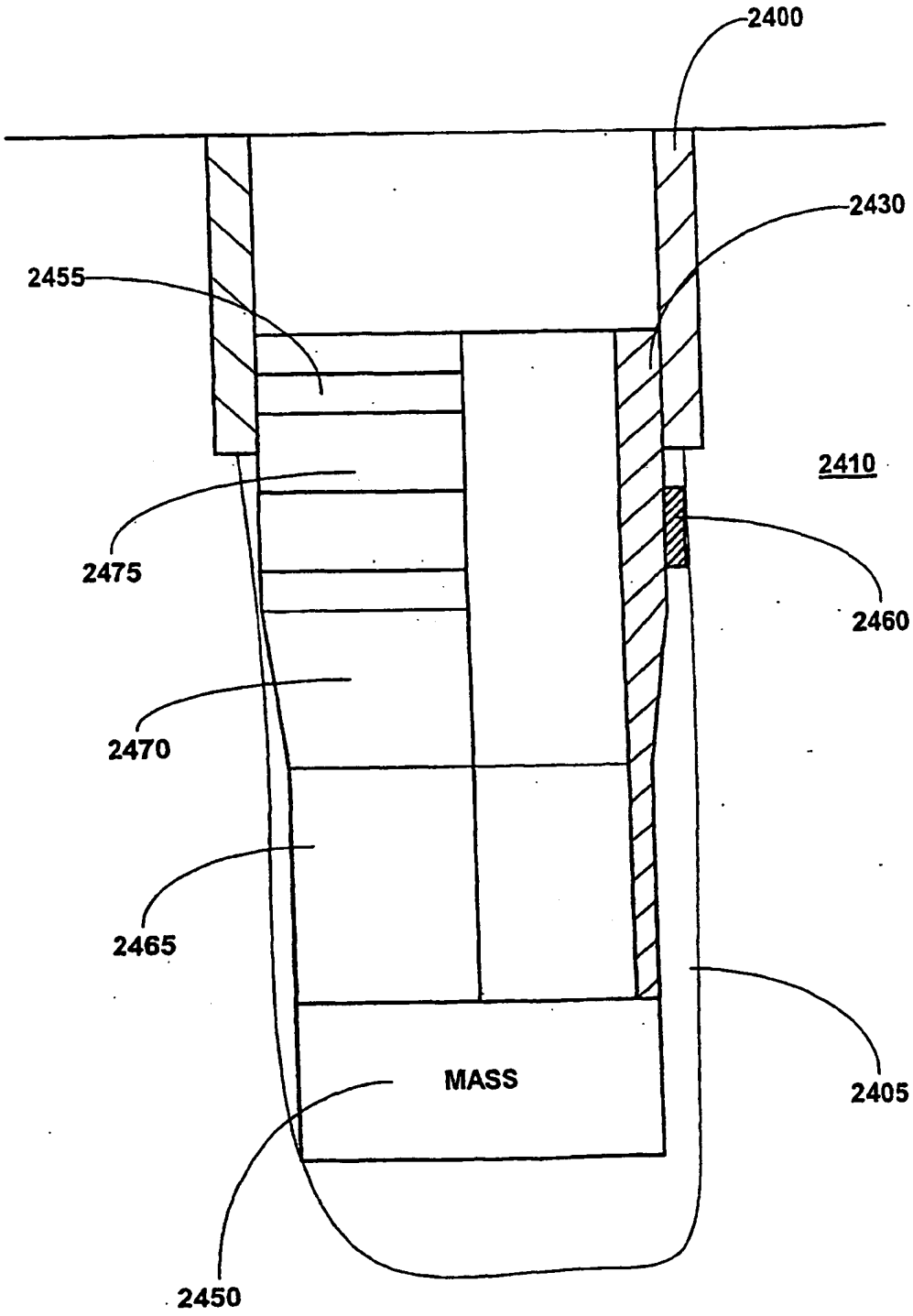

FIGURE 24c

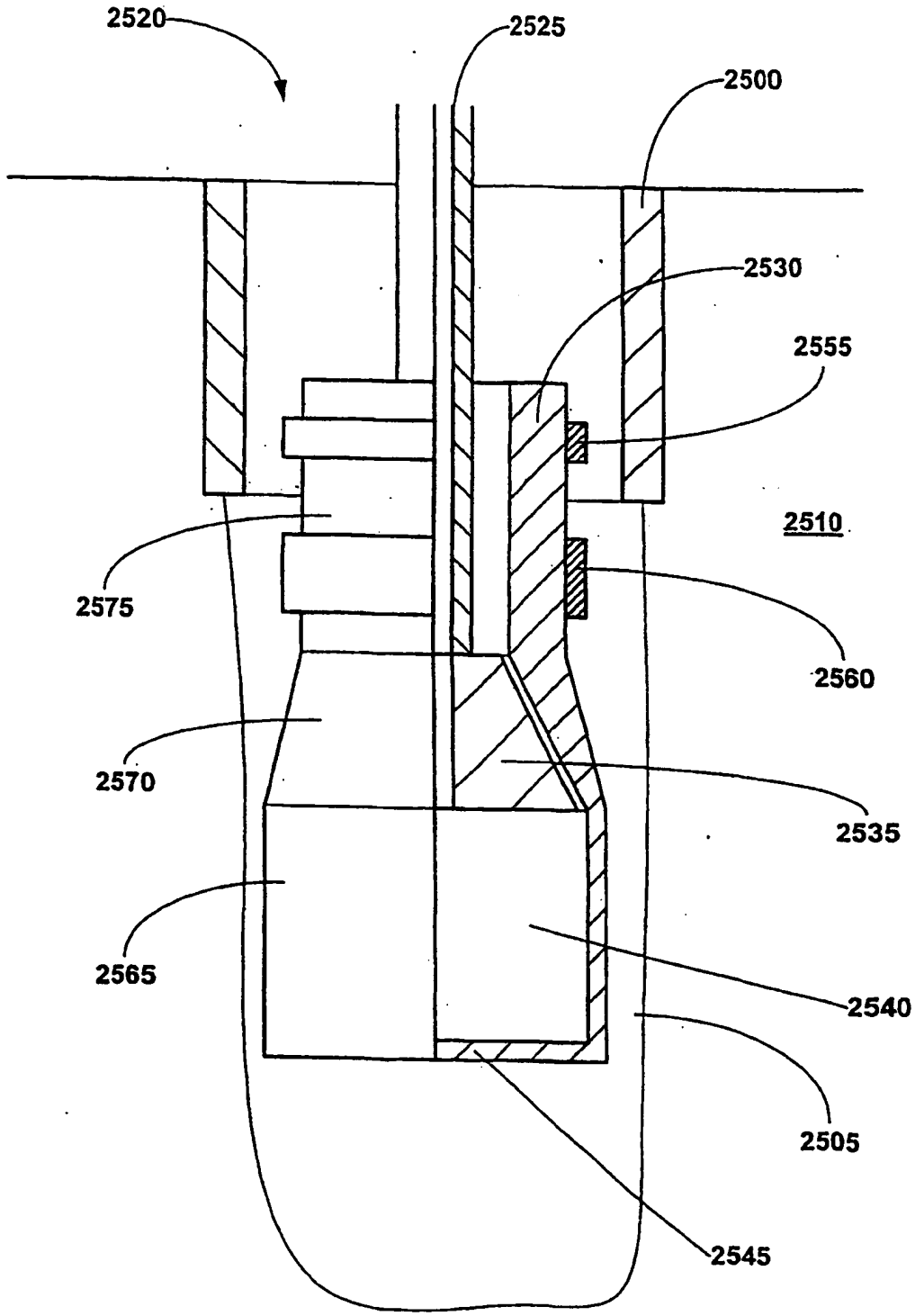
2520
2525
2500
2530
2555
2510
2575
2560
2570
2535
2565
2540
2505
2545

FIGURE 25a

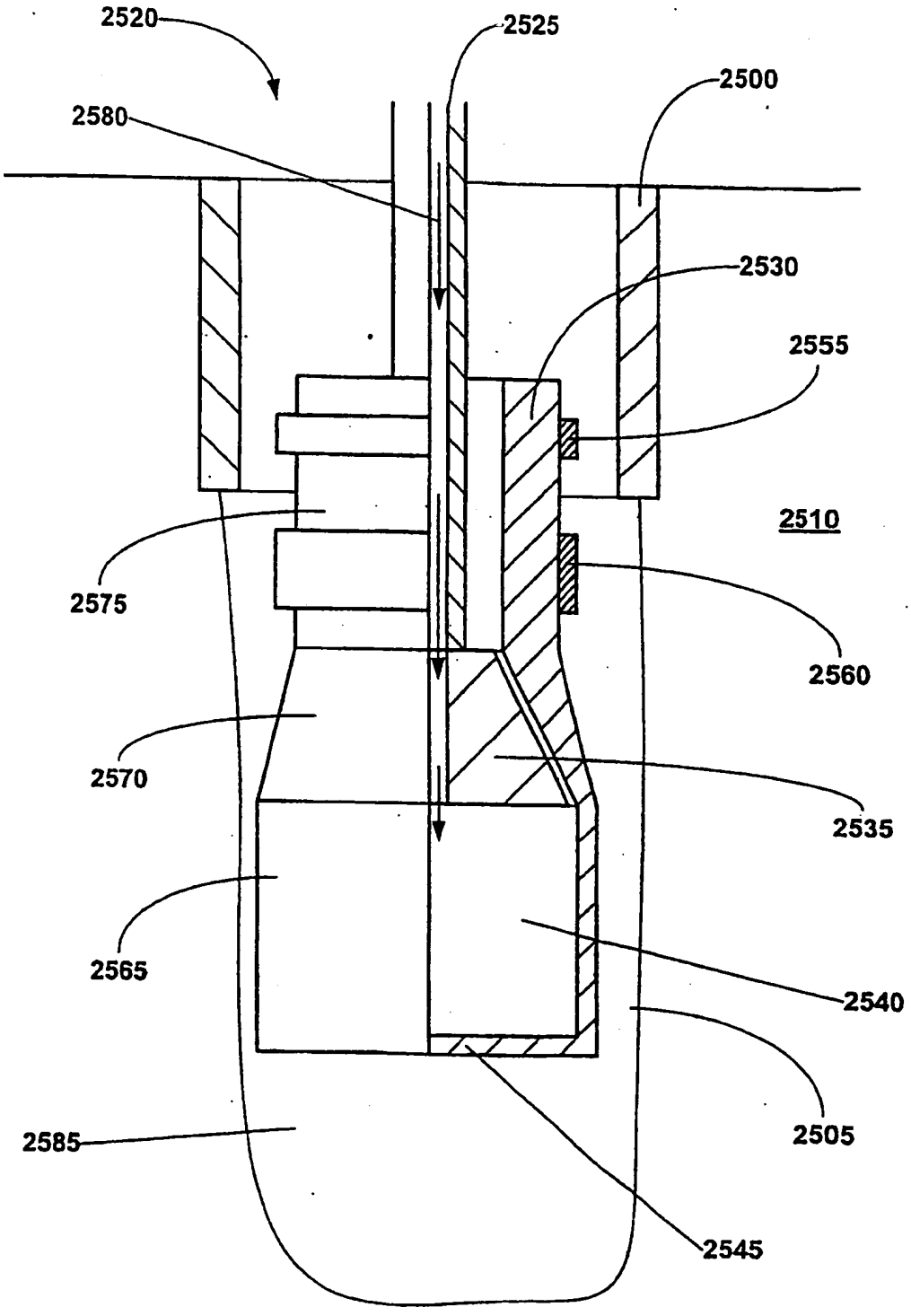
2520
2525
2500
2580
2530
2555
2510
2575
2560
2570
2535
2565
2540
2505
2585
2545

FIGURE 25b

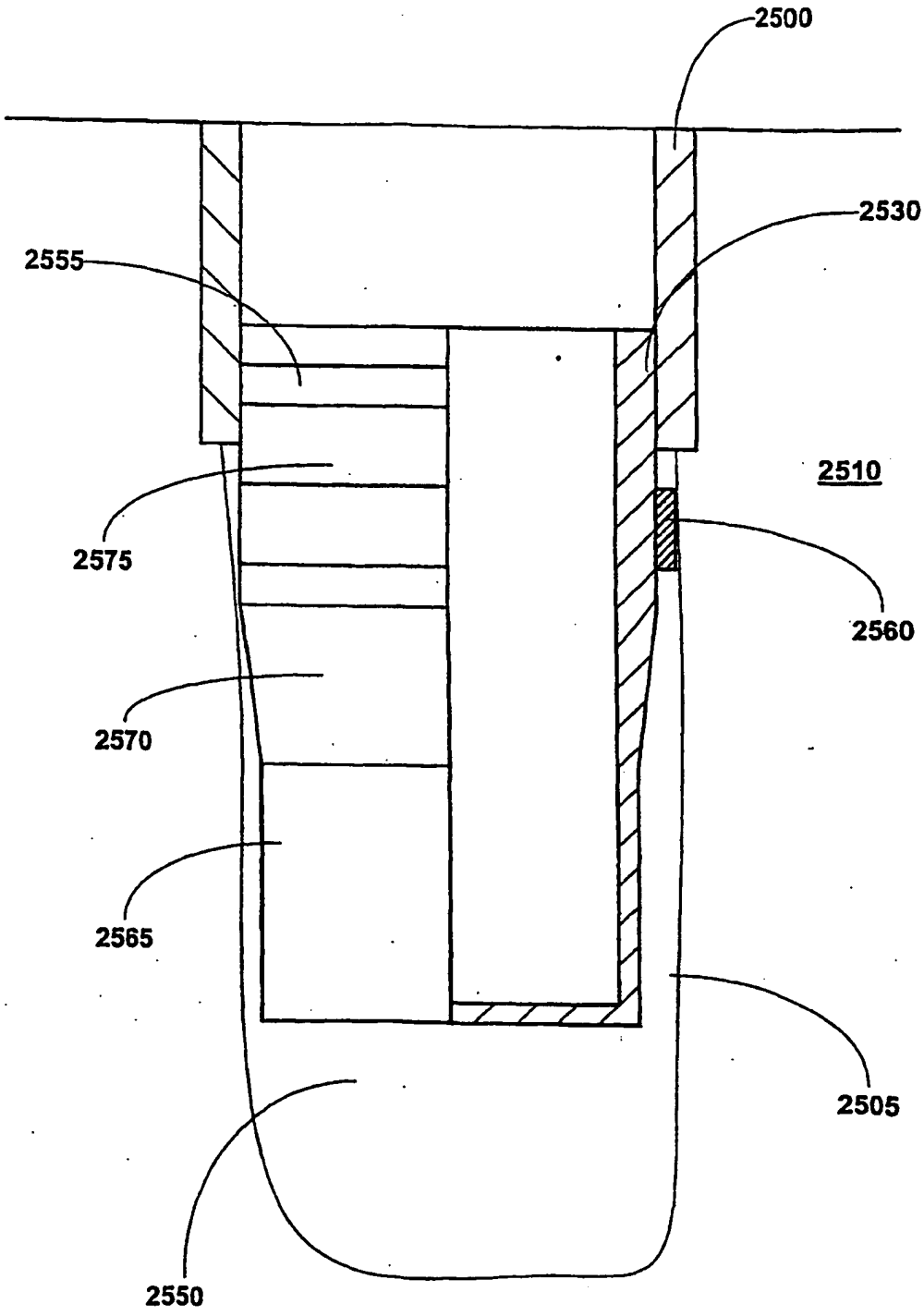

FIGURE 25c

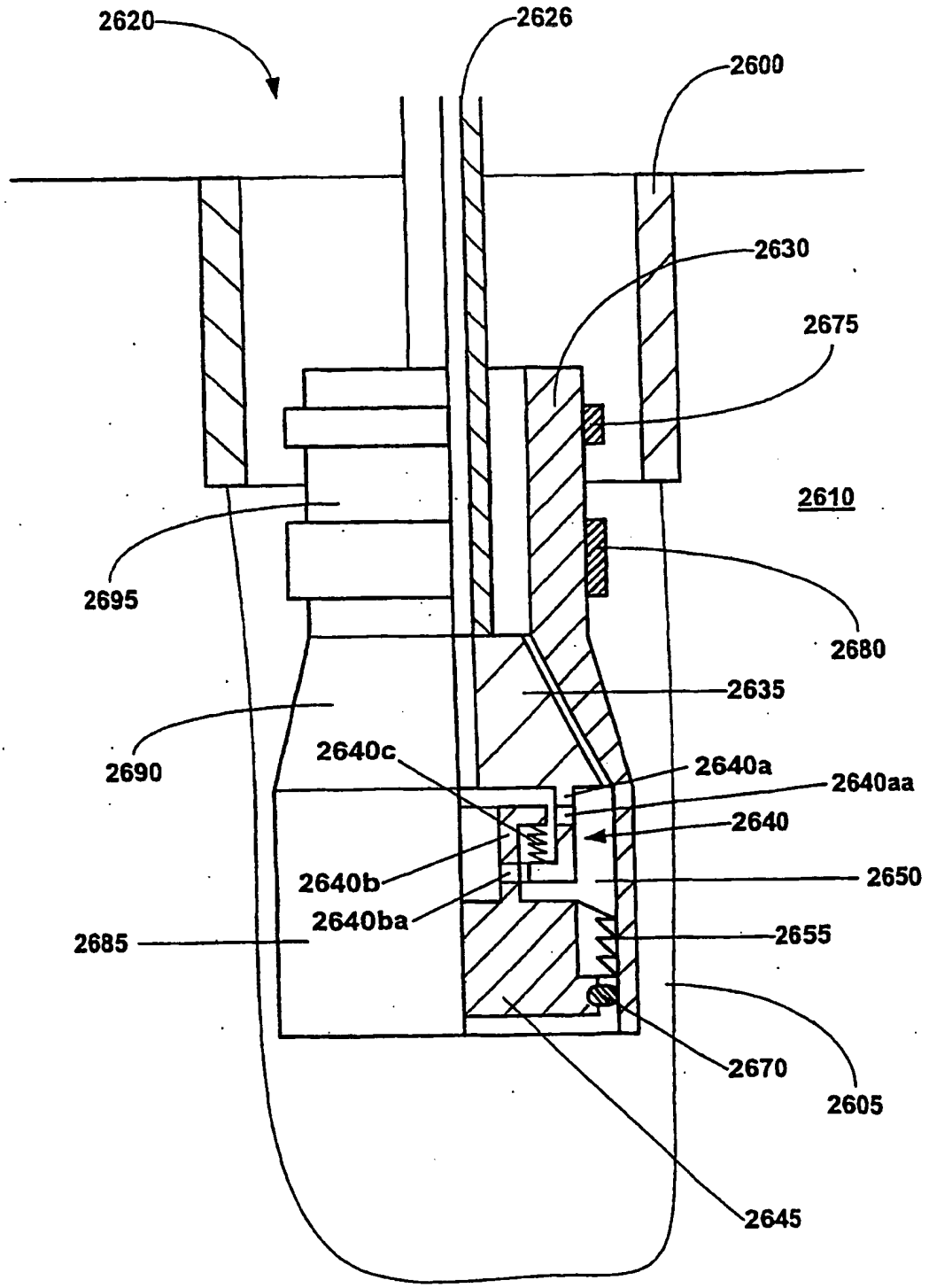
2620
2626
2600
2630
2675
2610
2695
2680
2635
2690
2640c
2640a
2640aa
2640
2640b
2650
2640ba
2685
2655
2670
2605
2645

FIGURE 26a

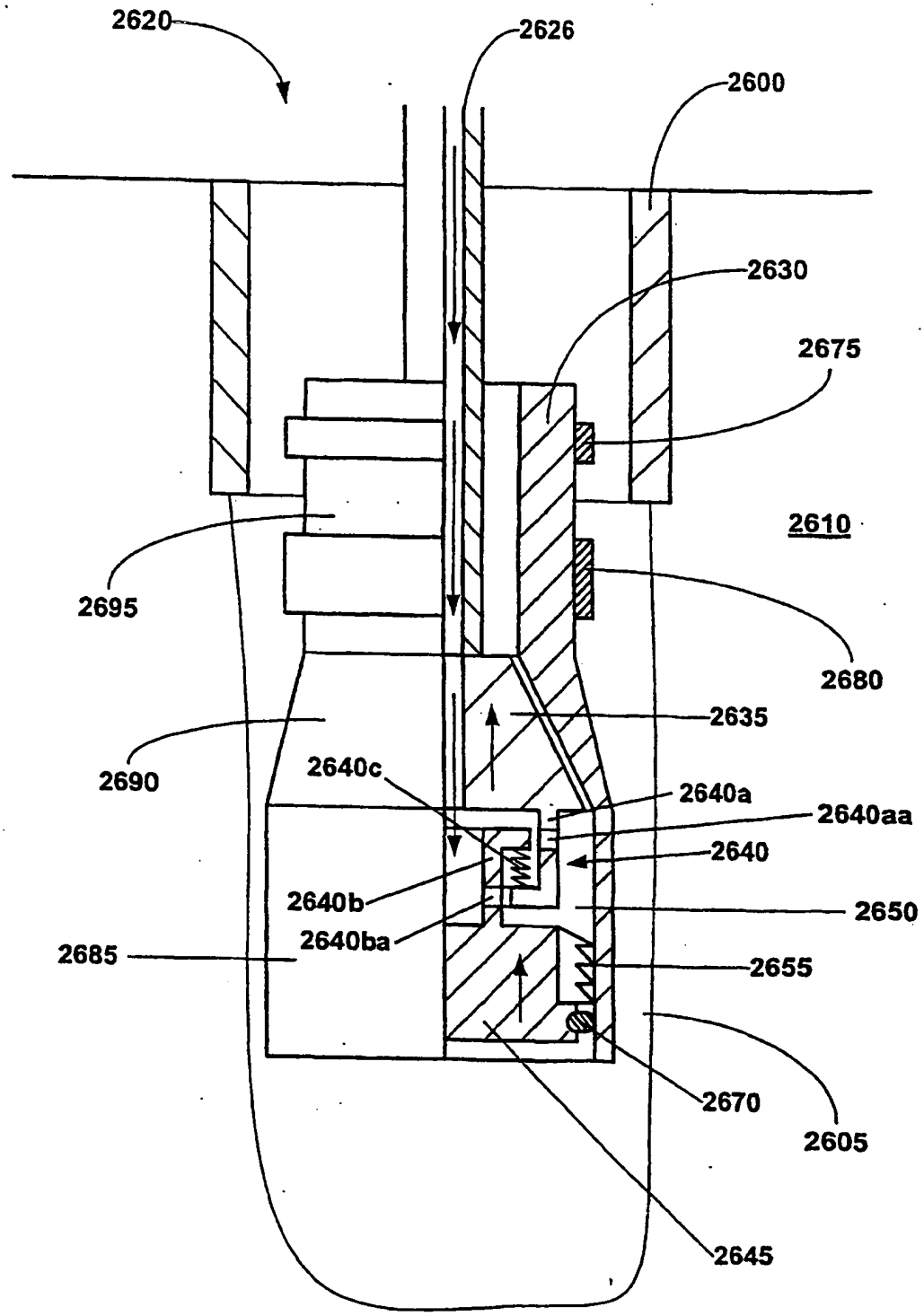
2620
2626
2600
2630
2675
2610
2695
2680
2635
2690
2640c
2640a
2640aa
2640
2640b
2650
2640ba
2685
2655
2670
2605
2645

FIGURE 26b

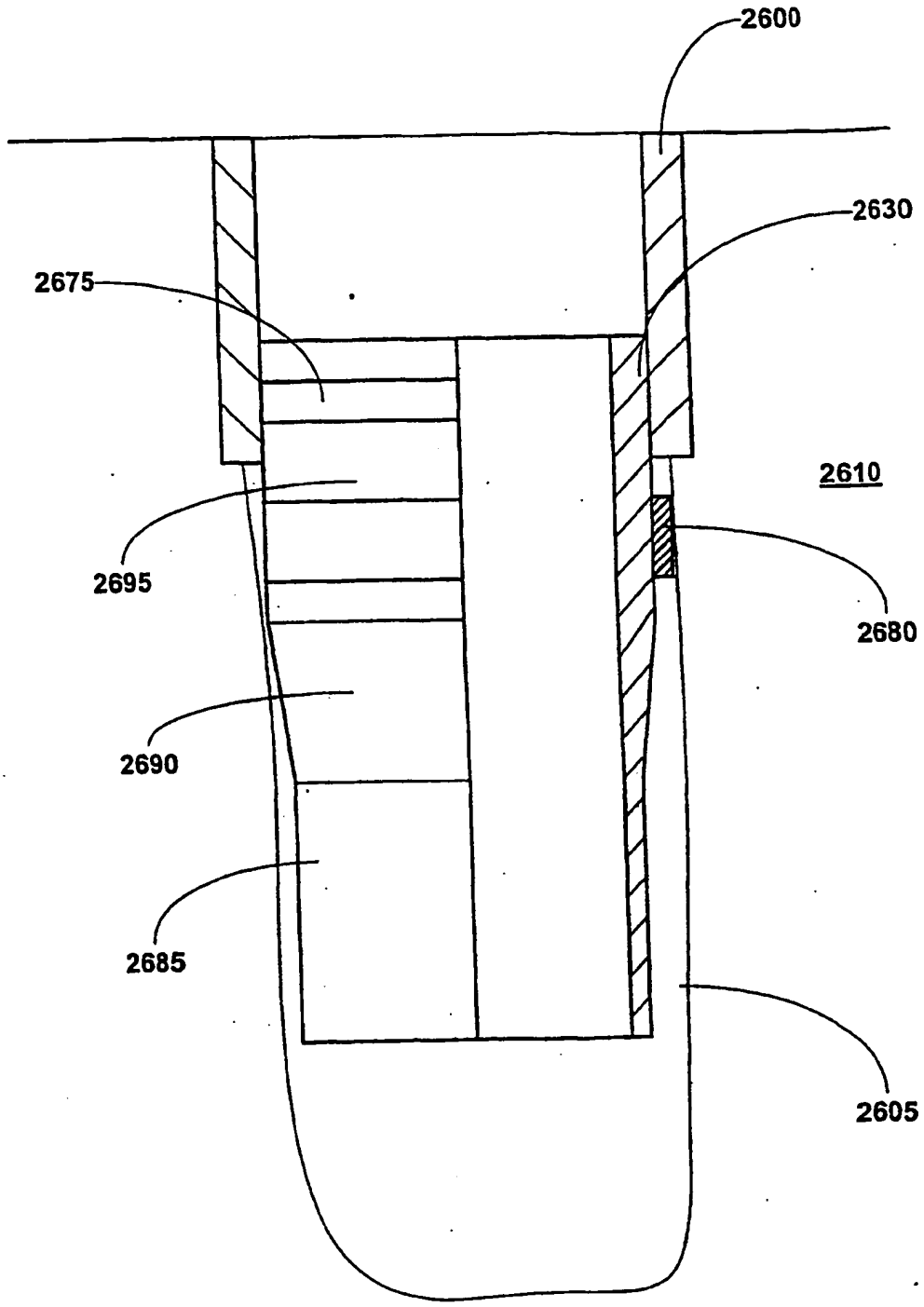

FIGURE 26c

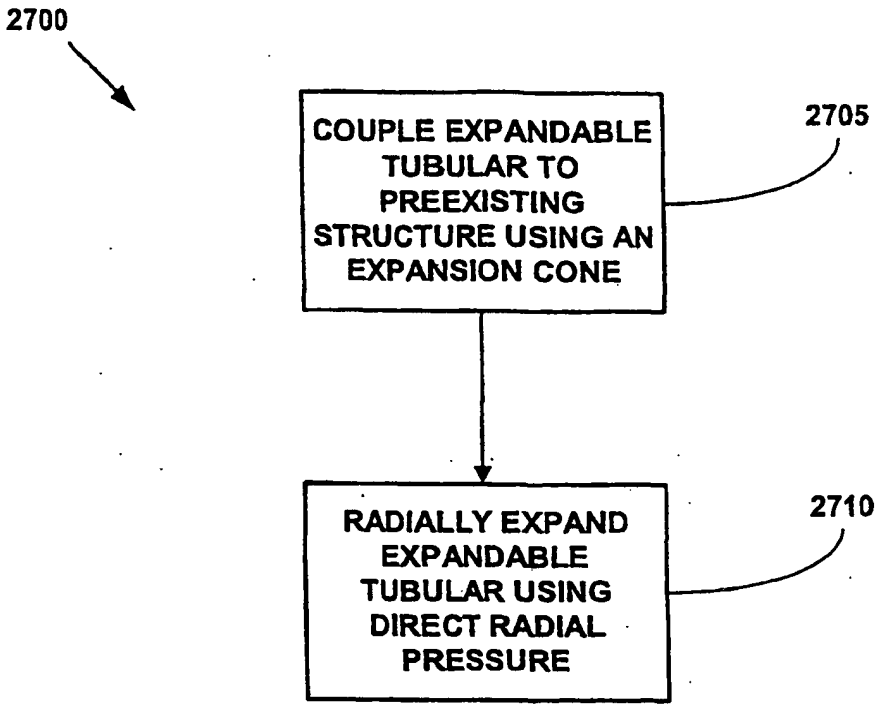
2700
COUPLE EXPANDABLE TUBULAR TO PREEXISTING STRUCTURE USING AN EXPANSION CONE
2705
RADIALLY EXPAND EXPANDABLE TUBULAR USING DIRECT RADIAL PRESSURE
2710

FIGURE 27

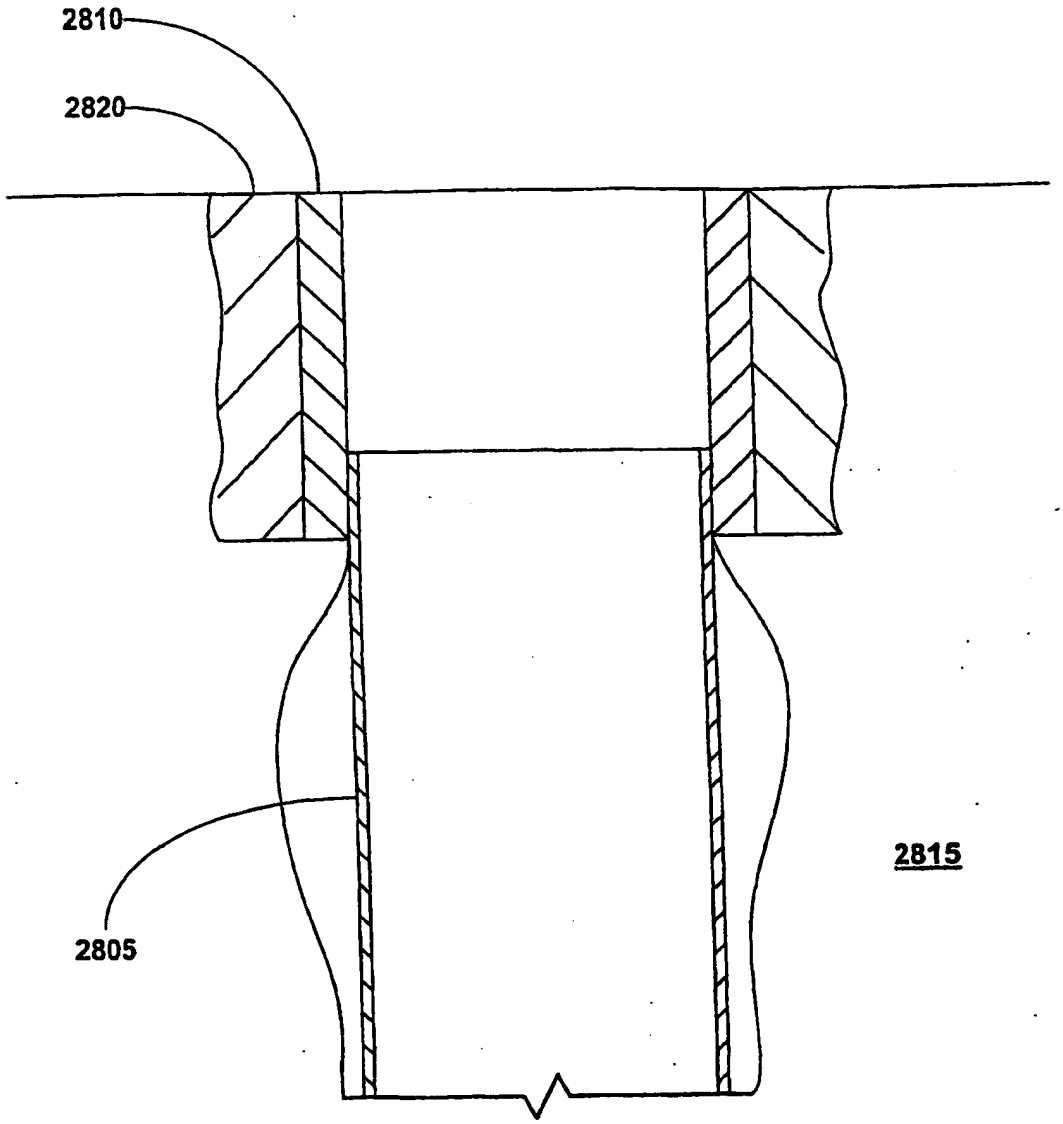

FIGURE 28

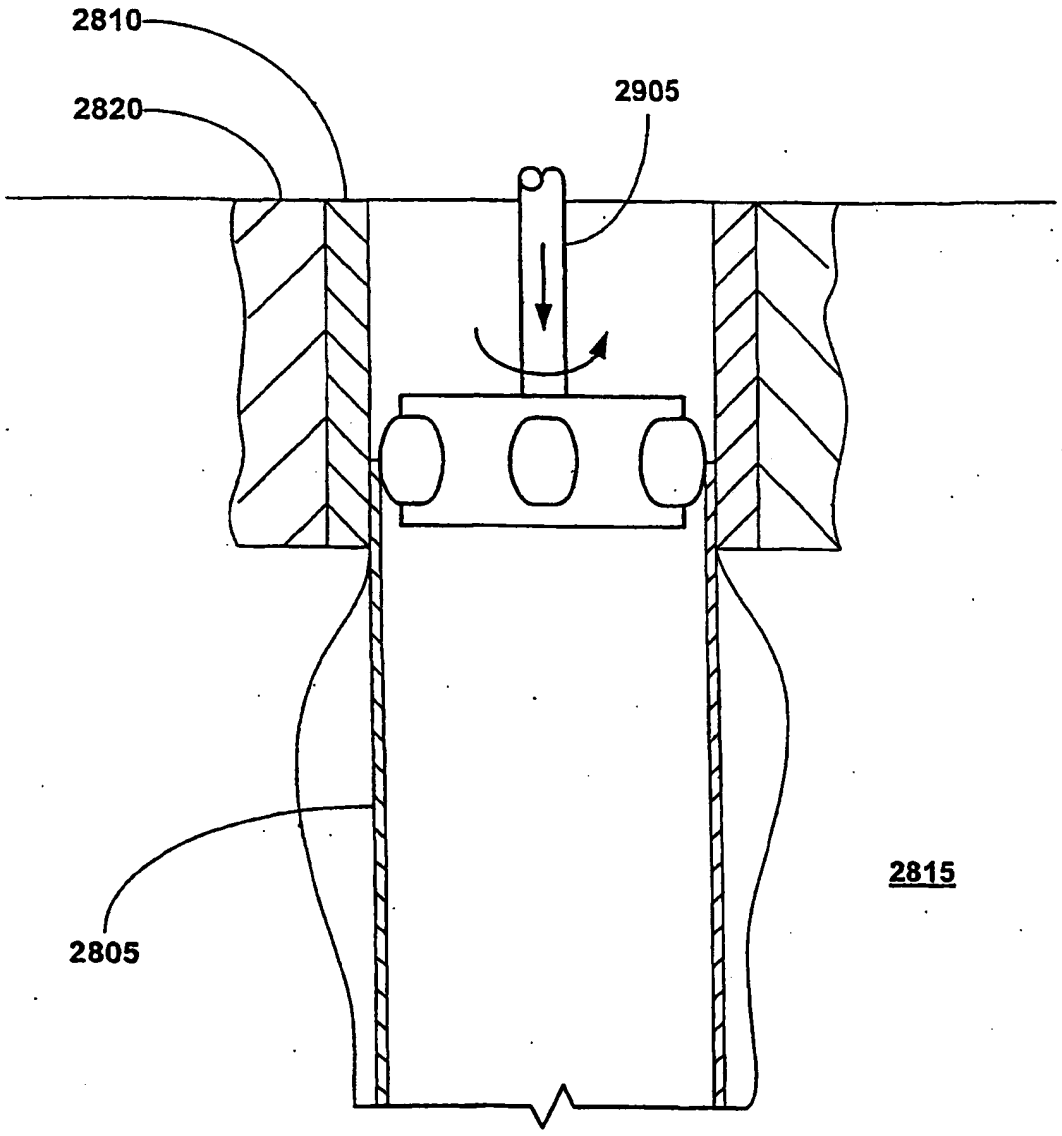

FIGURE 29

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